# Numbering Resource Utilization in the United States 

NRUF Data as of March 16, 2018
Porting and Toll-Free Data as of December 31, 2017

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## Executive Summary

This report summarizes an ongoing systematic collection of comprehensive data on the utilization of telephone numbers within the United States. ${ }^{1}$ The underlying information was acquired from telecommunications 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. ${ }^{2}$

## Highlights

As of December 31, 2017:

- Overall, $51.3 \%$ of all numbers were assigned to end users.
- The overall utilization rate for Competitive LECs $^{3}$ was $43.7 \%$.
- The overall utilization rate for Incumbent LECs was 39.1\%.
- The overall utilization rate for Mobile Wireless carriers was $75.1 \%$.
- The overall utilization rate for Paging carriers was $4.4 \%$.
- The overall utilization rate for $\mathrm{VoIP}^{4}$ providers was $6.0 \%$.
- The utilization rate of numbers assigned at the thousands-block level was $52.8 \%$.
- The utilization rate of numbers assigned at the NXX level was $10.6 \%$
- Thousands-block pooling has made it unnecessary to distribute over 900 million telephone numbers.
- Carriers returned 830,000 telephone numbers to the NANPA in the second-half of 2017.
- Since wireless porting began in 2003, there have been over 540 million numbers ported.
- Over 230 million numbers are currently ported.
- $97 \%$ of ports have been intramodal, meaning numbers are ported to other providers of the same service type.
- There are currently 41 million working toll-free numbers.

[^0]
## Background

The United States uses ten-digit telephone numbers, which are organized in accordance with the North American Numbering Plan (NANP). ${ }^{5}$ The NANP divides the country into separate 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 78 area codes were assigned to telecommunications service providers in the United States. Only 36 new codes were added through 1989. But the rate of activation increased dramatically in the 1990 s, when 112 new area codes were activated. ${ }^{6}$ Because the remaining supply of unassigned area codes was diminishing, and because a premature exhaust of area codes imposes significant costs on consumers, the Commission in 1999 initiated a proceeding to ensure that the limited numbering resources are used efficiently and thereby slow telephone number exhaust.

In the First NRO Order, in 2000, the Commission established the requirement that users of numbering resources are required to file utilization data and forecasts twice a year. ${ }^{7}$ Data as of December 31 are due to the North American Numbering Plan Administrator (NANPA) by February 1, and data as of June 30 are due by August 1. The data are submitted using FCC Form 502, the Numbering Resource Utilization/Forecast (NRUF) form. ${ }^{8}$

The vast majority of numbering resources reported were part of geographic area codes. That is, the numbers were part of area codes 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.

Historically, local telephone companies received geographic numbers in blocks of 10,000 . These ten-thousands-blocks of numbers are often called NXXs, or central office codes, and are identifiable as the first three digits of a seven-digit telephone number. ${ }^{9}$ To improve the efficiency with which numbers are used, the Commission's NRO Orders established "thousands-block number pooling," where an NXX is broken into ten sequential blocks of 1,000 numbers. ${ }^{10}$ Carriers may then be required to donate unused or underutilized blocks to

[^1]the Pooling Administrator (PA), 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 number utilization information at the thousands-block level so that the Commission can evaluate the efficacy of telephone number pooling. However, carriers that meet the statutory definition of "rural telephone company" ${ }^{12}$ and operate in non-pooling areas submit their number utilization information at the NXX level.

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

- Competitive LECs
- Incumbent LECs
- Mobile Wireless Carriers
- Paging Carriers
- VoIP Providers

This is the first edition of this report to consider VoIP providers as a separate provider type. In June 2015, the Commission adopted the Direct Access Order ${ }^{14}$ granting VoIP providers the ability to obtain numbers directly from the NANPA or PA. Prior to this order, VoIP providers were required to partner with a provider to obtain numbers. With almost all VoIP providers receiving their numbers from Competitive LECs, previous editions of this report presented VoIP numbers as being assigned to Competitive LECs.

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. Intermediate numbers are those made available from one carrier, for use by another carrier. Reserved numbers are those 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 after the end user discontinues service. Administrative numbers include test numbers and other numbers used for network management purposes. Available numbers are numbers that are generally available for assignment to customers. ${ }^{15}$

[^2]${ }^{14}$ Numbering Policies for Modern Communications, et al., Report and Order, WC Docket No. 13-97, et al., 30 FCC Rcd 6839 (2015) (Direct Access Order).
${ }^{15}$ Reserved numbers can be held for up to 180 days. Aging numbers may be aged no less than 45 days and no more than 90 days for residential customers and 365 days for commercial customers. For precise definitions of these categories, see 47 C.F.R. § 52.15.

Some carriers receive telephone numbers from other carriers, as opposed to directly from the NANPA. When this occurs, the receiver is required to report utilization data for those numbers, and to mark those numbers as having been received from other carriers. ${ }^{16}$

## Analysis and Results

Table 1 shows the total quantity of telephone numbers and NXXs reported by telecommunications carriers as of December 31, 2017. Table 1 also shows the quantity of telephone numbers that carriers reported for each of the six categories described above. The percentages for each of the six categories are provided as well. Available numbers do not include any telephone numbers in NXXs that had not yet been assigned to a carrier. ${ }^{17}$ As more NXXs are assigned to carriers by the NANPA, and more area codes are opened, more numbers will become available.

Table 2 presents statistics for numbers where carriers report the utilization information at the thousandsblock level. As previously explained, carriers that do not meet the statutory definition of a rural carrier are required to report in this manner.

Table 3 presents statistics for rural carriers, which are required to report only at the NXX level. ${ }^{18}$ As might be expected, overall utilization rates are lower in rural areas than in more urban areas.

Table 4 shows utilization statistics on a state-by-state basis. States that are relatively rural and have low population densities have a lower percentage of assigned numbers than more urban, populous states. Again, carriers report only numbers that have been assigned to them, so the quantity of available numbers does not include NXXs not yet assigned to a carrier.

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

Table 6 shows utilization statistics by area code. The table also shows the total number of OCNs reporting each area code. Since carriers report only numbers assigned to them, the quantity of available numbers does not include any NXXs in the state not yet assigned to a carrier.

Table 7 shows assigned, aging, and available numbers for wireline carriers (Incumbent LECs and Competitive LECs), mobile wireless carriers, and VoIP providers, by area code. The information in Table 7 is useful for at least two reasons. First, Table 7 provides some indication of 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, because the relationship between lines and numbers is not always one-to-one. Although mobile wireless carriers

[^3]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, for example, when the customer has a private branch exchange. Other customers, especially those expecting many inbound calls, such as to a help line, may 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 in service in each area code.

Second, the information in Table 7 provides the only information the FCC collects for examining churn. ${ }^{20}$ After a customer disconnects from a carrier's network and chooses not to port the number to another carrier, that carrier will hold that 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 in the previous three months to a year. Aging numbers, however, do not give a perfect indication of churn. Aside from not measuring numbers ported to another carrier, not all carriers age their numbers for the full time allowed. Where carriers have limited numbers and cannot immediately obtain new numbers from the NANPA or PA because of area code rationing, they may assign telephone numbers that have not been aged for the full time that the state regulatory commissions have prescribed. (Thousands-block pooling alleviates this problem by making more numbering resources available.) Therefore, at any given time, the number of aging numbers is likely smaller than the number of customers that have changed providers or disconnected service.

Table 8 focuses on telephone number pooling. It shows the number of thousands-blocks carriers received from the PA, the total number of thousands-blocks in telephone rate centers where pooling exists, ${ }^{21}$ and the percentage of those thousands-blocks that are pooled.

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 Metropolitan Statistical Areas (MSAs). ${ }^{22}$ Pooling also occurs in areas where a state regulatory commission has exercised delegated authority to require pooling and where carriers have voluntarily implemented pooling. ${ }^{23}$ The Commission established an initial national roll-out schedule for thousands-block number pooling for wireline carriers - completed in December $2003^{24}$ - and required most mobile wireless telephony carriers to participate in that schedule starting in August 2003. ${ }^{25}$

Table 9 examines the efficacy of thousands-block pooling by showing the utilization of the thousandsblocks that were distributed by the PA and the utilization rate that would have resulted had whole NXXs been

[^4]issued. ${ }^{26}$ Overall, the utilization rate for numbers in pooled blocks was $53.8 \%$. If whole NXXs had been issued instead of individual thousands-blocks, utilization within those blocks would have been $26.7 \%$. Another way of measuring the benefit of pooling is examining the quantity of telephone numbers saved through pooling. With pooling, 899 million telephone numbers were distributed to carriers in pooling areas. Had there been no pooling, over 1.8 billion telephone numbers would have been distributed. About 900 million telephone numbers have been saved through thousands-block pooling.

Table 10 shows utilization data for two specialized non-geographic 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 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.

Table 11 focuses on NPA-NXX assignment information. There are three different databases that contain sources of NPA-NXX assignment information: the NANPA's NRUF database, the NANPA's NANP Administration System (NAS) database of NPA-NXX assignments, and the Local Exchange Routing Guide (LERG). ${ }^{27}$ For 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. ${ }^{28}$ During permissive dialing, some carriers report utilization data for both the old and the new NPA-NXXs. After permissive dialing ends, the carrier should immediately remove the old NPA-NXXs from the LERG and its own systems. The NANPA also updates its information as well. 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. Consequently, the NRUF database, the NANPA assignment database, and the LERG may not be identical. Table 11 shows the number of NPA-NXXs that appear in the three databases.

Charts 1 through 5 focus on utilization rates as a function of the number of thousands-blocks held by carriers of different types within a local geographic area. ${ }^{29}$ These charts show average utilization rates of Competitive LECs, Incumbent LECs, Mobile Wireless Carriers, Paging Carriers, and VoIP providers, respectively. We used rate centers as our measure of local geographic area because thousands-blocks are assigned

[^5]to carriers on a rate-center basis. Carriers serving densely populated areas may need more than one thousandsblock 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 one thousands-block (or in many rural areas, an NXX) may be used to serve just a few customers.

Table 12 shows the percentage of numbers that have been assigned to end users over time. The utilization rate for Incumbent LECs is slowly declining and mobile wireless and Competitive LEC utilization rates are generally increasing. The utilization rate for paging services continues to drop.

Table 13 shows, on a semi-annual 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 unneeded NPA-NXXs to the NANPA for reassignment.

Tables 14 through 16 display information on telephone number porting. All telephone number porting information in this report is derived from the local number portability database, which was designed solely for routing calls. ${ }^{30}$ There are several reasons the quantity of ported numbers in the database at any given time does not equal the sum of numbers ported in prior months. When consumers who have already ported their telephone numbers do so again, the porting database retains only the most recent porting activity for those numbers. Consumers can also port their numbers back to the original carrier. ${ }^{31}$ When this happens, it is counted as a port even though the number drops out of the porting database. ${ }^{32}$ Also, carriers sometimes port blocks of numbers to other carriers before reassigning them in the LERG. Once the numbers are reassigned, they can be dropped from the porting database.

Table 14 shows, on a semi-annual basis, the quantities of telephone numbers that have been ported since wireless porting started on November 24, 2003. The table shows that most porting activity is intramodal, for instance, between two landline carriers or two mobile carriers. Table 15 shows the quantity of telephone numbers in the porting database over time. Table 16 is based on ports in the database as of December 31, 2017 and shows the period in which the numbers were most recently ported. In June 2013, a technical trial began allowing VoIP providers to obtain numbering resources directly from the NANPA and PA. ${ }^{33}$ Prior to this trial, any ports to or from a VoIP provider would appear as ports to or from a wireline carrier, as most VoIP providers obtained their numbers from a wireline carrier.

Tables 17 through 19 show the number of ports in the database along with the number of carriers involved in porting. The data are presented on a state-by-state basis with each table representing a carrier type: wireline, wireless, and VoIP. Paging carriers are not required to port numbers. Table 20 shows the percentage of assigned numbers that were ported.

[^6]Customers may port their numbers multiple times, and in doing so, may change the nature of their service (wireline versus wireless versus VoIP). As a result, there are two possible methods of determining whether a number was ported from a wireline carrier. The first method is to use the type of carrier that is currently porting the number away from itself, and the second is to determine which type of carrier originally held the number. The choice of methodologies depends on what is being measured. Because it is useful to know porting patterns for numbers as they are currently being used, Tables 14 and 20 use the porting carrier's type to establish whether a wireline or wireless number is being ported. For the rest of the tables, the original carrier's type is used to determine the porting carrier's type. This is done so that the number of wireless subscribers can be better determined. ${ }^{34}$ For instance, to properly calculate the number of wireless units at a particular point in time using telephone number data, one can add the quantity of wireless assigned numbers as reported on NRUF forms to the number of ports to wireless carriers and subtract the number of ports from wireless carriers. ${ }^{35}$

Tables 21 through 28 show information about toll-free numbers in the North American Numbering Plan. AT\&T introduced toll-free service in 1967. The Commission changed procedures for routing toll-free calls on May 1, 1993 to make toll-free numbers "portable." This change enabled customers to switch service providers yet retain their toll-free numbers. The quantity of assigned toll-free numbers grew rapidly, and new toll-free calling codes were opened to meet the demand. In March 1996, calling code 888 was placed into service. The third tollfree calling code (877) went into effect April 4, 1998, and the fourth toll-free calling code (866) went into effect July 29, 2000. The fifth toll-free calling code (855) went into effect October 10, 2010, the sixth toll-free calling code (844) went into effect December 7, 2013 and the seventh toll-free calling code (833) went into effect June 3, 2017. As of December 31, 2017, there were over 41 million toll-free numbers assigned. Tables 21 through 28 show the growth of each individual toll-free code over the past decade: $800,888,877,866,855,844$, and 833 , respectively.

Table 29 shows the current list of area codes, the state or territory they serve, and the month the code was opened. Table 30 shows area code assignments since January 2005, along with the month the code was added, and the code that served the area previously.

## 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. ${ }^{36}$ 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 Incumbent LEC to another carrier, they were classified as "assigned" because they could not be used elsewhere in the Incumbent LEC'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 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.

[^7]Where a Regional Bell Operating Company (RBOC) acquired a carrier with Competitive LEC services in the RBOC's operating region, the numbering resources of the acquired Competitive LEC in the RBOC's operating region were counted as Incumbent LEC resources. Where the acquired Competitive LEC provides services outside of the acquirer's operating region, the numbering resources are treated as Competitive LEC resources.

For ease of comparison, Charts 1 through 5 plot utilization rates only when there were 1,000 or fewer thousands-blocks in a rate center. Some Incumbent LECs reported more than 1,000 unique thousands-blocks in a single rate center. 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 charts 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 Competitive LECs had many thousands-blocks in a single rate center. Although most Competitive LECs 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 Competitive LEC would do so. First, some Competitive LECs provide service to unified messaging services, such as e-fax. ${ }^{37}$ These services use large quantities of numbers. ${ }^{38}$ Also, before the Direct Access Order allowing them to obtain numbers directly from the NANPA or PA, many VoIP providers obtained telephone numbers for their customers by partnering with a local exchange carrier through a commercial arrangement. Not all of these numbers have been ported to the VoIP provider, so those numbers remain with the LEC.

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 Steven Kauffman at steven.kauffman@fcc.gov and Craig Stroup at craig.stroup@fcc.gov, or calling the Industry Analysis Division at (202) 418-0940 (for TTY, call (202) 418-0484).

[^8]Table 1
Number Utilization by Carrier Type as of December 31, 2017

| Carrier Type | Assigned | Intermediate | Reserved <br> (Thousands of telephone numbers) | Aging | Administrative | Available $^{1}$ | Total | Unique |
| :---: | ---: | :---: | ---: | ---: | ---: | ---: | ---: | ---: |
| NXXs |  |  |  |  |  |  |  |  |$|$

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

| Carrier Type | Assigned | Intermediate | Reserved <br> (Thousands | Aging <br> of telephone | Administrative <br> numbers) | Available ${ }^{1}$ | Total | Unique <br> NXXs |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Competitive LEC | 206,834 | 9,998 | 3,639 | 14,009 | 1,185 | 233,498 | 469,163 | 81,062 |
| Incumbent LEC | 209,239 | 19,142 | 3,112 | 4,097 | 8,388 | 257,064 | 501,041 | 58,689 |
| Mobile Wireless | 405,625 | 447 | 3,792 | 15,305 | 3,854 | 107,870 | 536,894 | 80,637 |
| Paging | 2,035 | 34 | 747 | 52 | 21 | 46,921 | 49,810 | 4,295 |
| VoIP | 219 | 0 | 4 | 4 | 17 | 3,395 | 3,639 | 2,849 |
| All Reporting Carriers | 823,952 | 29,622 | 11,293 | 33,467 | 13,465 | 648,747 | $1,560,547$ | $156,571^{2}$ |
|  |  |  |  |  |  |  |  |  |
| Competitive LEC | $44.1 \%$ | $2.1 \%$ | $0.8 \%$ | $3.0 \%$ | $0.3 \%$ | $49.8 \%$ | $100.0 \%$ |  |
| Incumbent LEC | $41.8 \%$ | $3.8 \%$ | $0.6 \%$ | $0.8 \%$ | $1.7 \%$ | $51.3 \%$ | $100.0 \%$ |  |
| Mobile Wireless | $75.6 \%$ | $0.1 \%$ | $0.7 \%$ | $2.9 \%$ | $0.7 \%$ | $20.1 \%$ | $100.0 \%$ |  |
| Paging | $4.1 \%$ | $0.1 \%$ | $1.5 \%$ | $0.1 \%$ | $0.0 \%$ | $94.2 \%$ | $100.0 \%$ |  |
| VoIP | $6.0 \%$ | $0.0 \%$ | $0.1 \%$ | $0.1 \%$ | $0.5 \%$ | $93.3 \%$ | $100.0 \%$ |  |
| All Reporting Carriers | $52.8 \%$ | $1.9 \%$ | $0.7 \%$ | $2.1 \%$ | $0.9 \%$ | $41.6 \%$ | $100.0 \%$ |  |

Table 3

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

| Carrier Type | Assigned | Intermediate | Reserved <br> (Thou | Aging <br> of telep | Administrative numbers) | Available ${ }^{1}$ | Total | Unique NXXs |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Competitive LEC | 680 | 159 | 79 | 18 | 37 | 5,040 | 6,013 | 4,349 |
| Incumbent LEC | 3,677 | 322 | 710 | 289 | 234 | 38,232 | 43,464 | 601 |
| Mobile Wireless | 1,319 | 47 | 143 | 58 | 175 | 3,228 | 4,970 | 495 |
| Paging | 180 | 14 | 33 | 33 | 36 | 703 | 1,000 | 84 |
| VoIP | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| All Reporting Carriers | 5,855 | 543 | 965 | 398 | 481 | 47,204 | 55,447 | 5,525 ${ }^{2}$ |
| Competitive LEC | 11.3 \% | 2.7 \% | 1.3 \% | 0.3 \% | 0.6 \% | 83.8 \% | 100.0 \% |  |
| Incumbent LEC | 8.5 \% | 0.7 \% | 1.6 \% | 0.7 \% | 0.5 \% | 88.0 \% | 100.0 \% |  |
| Mobile Wireless | 26.5 \% | 0.9 \% | 2.9 \% | 1.2 \% | 3.5 \% | 65.0 \% | 100.0 \% |  |
| Paging | 18.0 \% | 1.4 \% | 3.3 \% | 3.3 \% | 3.6 \% | 70.3 \% | 100.0 \% |  |
| VoIP | 0.0 \% | 0.0 \% | 0.0 \% | 0.0 \% | 0.0 \% | 0.0 \% | NM |  |
| All Reporting Carriers | 10.6 \% | 1.0 \% | 1.7 \% | 0.7 \% | 0.9 \% | 85.1 \% | 100.0 \% |  |

[^9]Table 4
Number Utilization by State as of December 31, 2017

| 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 | 10,610 | 43.8 | 1,261 | 5.2 | 102 | 0.4 | 443 | 1.8 | 285 | 1.2 | 11,528 | 47.6 | 24,229 |
| Alaska | 1,735 | 27.7 | 170 | 2.7 | 21 | 0.3 | 66 | 1.0 | 86 | 1.4 | 4,175 | 66.8 | 6,253 |
| American Samoa | 72 | 42.2 | 0 | 0.0 | 1 | 0.8 | 0 | 0.0 | 4 | 2.1 | 93 | 54.8 | 170 |
| Arizona | 16,436 | 63.9 | 183 | 0.7 | 199 | 0.8 | 584 | 2.3 | 859 | 3.3 | 7,455 | 29.0 | 25,715 |
| Arkansas | 6,251 | 39.4 | 335 | 2.1 | 79 | 0.5 | 198 | 1.2 | 99 | 0.6 | 8,918 | 56.2 | 15,879 |
| California | 102,738 | 57.1 | 2,298 | 1.3 | 1,156 | 0.6 | 4,325 | 2.4 | 1,301 | 0.7 | 68,021 | 37.8 | 179,840 |
| Colorado | 15,589 | 60.5 | 140 | 0.5 | 163 | 0.6 | 523 | 2.0 | 766 | 3.0 | 8,576 | 33.3 | 25,758 |
| Connecticut | 9,276 | 55.3 | 150 | 0.9 | 114 | 0.7 | 322 | 1.9 | 47 | 0.3 | 6,879 | 41.0 | 16,789 |
| Delaware | 2,938 | 56.9 | 49 | 1.0 | 40 | 0.8 | 116 | 2.2 | 18 | 0.4 | 2,002 | 38.8 | 5,163 |
| District of Columbia | 5,330 | 74.1 | 61 | 0.9 | 79 | 1.1 | 205 | 2.9 | 27 | 0.4 | 1,493 | 20.7 | 7,195 |
| Florida | 46,879 | 55.1 | 4,304 | 5.1 | 1,106 | 1.3 | 2,976 | 3.5 | 767 | 0.9 | 29,008 | 34.1 | 85,040 |
| Georgia | 25,352 | 49.1 | 3,206 | 6.2 | 315 | 0.6 | 1,275 | 2.5 | 469 | 0.9 | 20,984 | 40.7 | 51,600 |
| Guam | 319 | 39.9 | 0 | 0.0 | 6 | 0.7 | 24 | 3.0 | 1 | 0.2 | 450 | 56.2 | 800 |
| Hawaii | 2,236 | 69.9 | 8 | 0.3 | 25 | 0.8 | 68 | 2.1 | 11 | 0.4 | 850 | 26.6 | 3,199 |
| Idaho | 3,919 | 53.1 | 66 | 0.9 | 69 | 0.9 | 124 | 1.7 | 234 | 3.2 | 2,969 | 40.2 | 7,380 |
| Illinois | 34,860 | 46.9 | 623 | 0.8 | 540 | 0.7 | 1,266 | 1.7 | 440 | 0.6 | 36,615 | 49.3 | 74,345 |
| Indiana | 14,796 | 45.6 | 458 | 1.4 | 214 | 0.7 | 473 | 1.5 | 155 | 0.5 | 16,341 | 50.4 | 32,437 |
| Iowa | 7,500 | 34.5 | 281 | 1.3 | 133 | 0.6 | 293 | 1.4 | 282 | 1.3 | 13,242 | 60.9 | 21,731 |
| Kansas | 7,918 | 39.1 | 396 | 2.0 | 229 | 1.1 | 292 | 1.4 | 154 | 0.8 | 11,266 | 55.6 | 20,255 |
| Kentucky | 9,052 | 33.3 | 908 | 3.3 | 123 | 0.5 | 422 | 1.6 | 143 | 0.5 | 16,501 | 60.8 | 27,148 |
| Louisiana | 10,714 | 43.8 | 1,350 | 5.5 | 143 | 0.6 | 546 | 2.2 | 293 | 1.2 | 11,440 | 46.7 | 24,485 |
| Maine | 3,139 | 44.6 | 42 | 0.6 | 80 | 1.1 | 112 | 1.6 | 45 | 0.6 | 3,624 | 51.5 | 7,042 |
| Maryland | 16,774 | 57.0 | 198 | 0.7 | 198 | 0.7 | 766 | 2.6 | 145 | 0.5 | 11,337 | 38.5 | 29,419 |
| Massachusetts | 23,255 | 55.7 | 400 | 1.0 | 484 | 1.2 | 1,093 | 2.6 | 209 | 0.5 | 16,325 | 39.1 | 41,764 |
| Michigan | 28,073 | 47.5 | 364 | 0.6 | 284 | 0.5 | 822 | 1.4 | 229 | 0.4 | 29,285 | 49.6 | 59,058 |
| Minnesota | 15,710 | 48.2 | 182 | 0.6 | 175 | 0.5 | 445 | 1.4 | 462 | 1.4 | 15,595 | 47.9 | 32,569 |
| Mississippi | 6,085 | 37.7 | 716 | 4.4 | 36 | 0.2 | 255 | 1.6 | 181 | 1.1 | 8,888 | 55.0 | 16,161 |
| Missouri | 14,588 | 43.3 | 525 | 1.6 | 173 | 0.5 | 551 | 1.6 | 193 | 0.6 | 17,695 | 52.5 | 33,725 |
| Montana | 2,220 | 31.8 | 24 | 0.3 | 27 | 0.4 | 62 | 0.9 | 73 | 1.0 | 4,571 | 65.5 | 6,977 |
| Nebraska | 5,407 | 43.7 | 80 | 0.6 | 54 | 0.4 | 175 | 1.4 | 217 | 1.7 | 6,451 | 52.1 | 12,384 |
| Nevada | 7,341 | 57.2 | 101 | 0.8 | 128 | 1.0 | 312 | 2.4 | 95 | 0.7 | 4,853 | 37.8 | 12,831 |
| New Hampshire | 3,458 | 48.3 | 42 | 0.6 | 83 | 1.2 | 179 | 2.5 | 23 | 0.3 | 3,373 | 47.1 | 7,158 |
| New Jersey | 25,863 | 56.3 | 427 | 0.9 | 357 | 0.8 | 1,175 | 2.6 | 250 | 0.5 | 17,845 | 38.9 | 45,917 |
| New Mexico | 4,605 | 49.6 | 56 | 0.6 | 131 | 1.4 | 173 | 1.9 | 257 | 2.8 | 4,068 | 43.8 | 9,290 |
| New York | 57,982 | 59.7 | 709 | 0.7 | 863 | 0.9 | 2,704 | 2.8 | 580 | 0.6 | 34,307 | 35.3 | 97,146 |
| North Carolina | 22,453 | 50.8 | 1,986 | 4.5 | 446 | 1.0 | 1,103 | 2.5 | 377 | 0.9 | 17,841 | 40.4 | 44,206 |
| North Dakota | 1,725 | 26.5 | 19 | 0.3 | 36 | 0.6 | 49 | 0.7 | 53 | 0.8 | 4,627 | 71.1 | 6,510 |
| Northern Mariana Islands | 91 | 34.9 | 0 | 0.0 | 5 | 1.9 | 3 | 1.2 | 1 | 0.5 | 160 | 61.6 | 260 |
| Ohio | 31,674 | 51.8 | 715 | 1.2 | 355 | 0.6 | 1,103 | 1.8 | 306 | 0.5 | 27,037 | 44.2 | 61,191 |
| Oklahoma | 8,325 | 38.1 | 534 | 2.4 | 151 | 0.7 | 368 | 1.7 | 133 | 0.6 | 12,369 | 56.5 | 21,880 |
| Oregon | 9,954 | 54.4 | 126 | 0.7 | 232 | 1.3 | 345 | 1.9 | 315 | 1.7 | 7,329 | 40.0 | 18,300 |
| Pennsylvania | 33,439 | 50.8 | 498 | 0.8 | 613 | 0.9 | 1,403 | 2.1 | 374 | 0.6 | 29,465 | 44.8 | 65,791 |
| Puerto Rico | 5,584 | 62.2 | 71 | 0.8 | 112 | 1.2 | 206 | 2.3 | 88 | 1.0 | 2,916 | 32.5 | 8,976 |
| Rhode Island | 2,698 | 53.9 | 38 | 0.8 | 50 | 1.0 | 105 | 2.1 | 20 | 0.4 | 2,092 | 41.8 | 5,002 |
| South Carolina | 9,870 | 46.6 | 1,125 | 5.3 | 167 | 0.8 | 559 | 2.6 | 218 | 1.0 | 9,226 | 43.6 | 21,166 |
| South Dakota | 2,013 | 30.9 | 17 | 0.3 | 21 | 0.3 | 57 | 0.9 | 63 | 1.0 | 4,346 | 66.7 | 6,518 |
| Tennessee | 15,574 | 48.8 | 1,852 | 5.8 | 196 | 0.6 | 761 | 2.4 | 298 | 0.9 | 13,201 | 41.4 | 31,883 |
| Texas | 68,025 | 52.8 | 2,199 | 1.7 | 1,072 | 0.8 | 2,221 | 1.7 | 865 | 0.7 | 54,343 | 42.2 | 128,726 |
| Utah | 8,241 | 60.9 | 83 | 0.6 | 49 | 0.4 | 337 | 2.5 | 325 | 2.4 | 4,503 | 33.3 | 13,540 |
| Vermont | 1,772 | 38.2 | 47 | 1.0 | 33 | 0.7 | 56 | 1.2 | 10 | 0.2 | 2,724 | 58.7 | 4,643 |
| Virgin Islands | 171 | 39.0 | 12 | 2.7 | 5 | 1.1 | 14 | 3.1 | 6 | 1.4 | 232 | 52.6 | 440 |
| Virginia | 21,876 | 59.6 | 218 | 0.6 | 295 | 0.8 | 784 | 2.1 | 224 | 0.6 | 13,296 | 36.2 | 36,693 |
| Washington | 18,881 | 61.2 | 144 | 0.5 | 233 | 0.8 | 514 | 1.7 | 599 | 1.9 | 10,501 | 34.0 | 30,873 |
| West Virginia | 3,553 | 40.9 | 62 | 0.7 | 31 | 0.4 | 98 | 1.1 | 40 | 0.5 | 4,907 | 56.5 | 8,691 |
| Wisconsin | 13,494 | 44.8 | 288 | 1.0 | 191 | 0.6 | 369 | 1.2 | 154 | 0.5 | 15,646 | 51.9 | 30,142 |
| Wyoming | 1,373 | 37.0 | 17 | 0.4 | 37 | 1.0 | 44 | 1.2 | 74 | 2.0 | 2,169 | 58.4 | 3,713 |
| United States | 829,807 | 51.3 | 30,165 | 1.9 | 12,259 | 0.8 | 33,865 | 2.1 | 13,946 | 0.9 | 695,951 | 43.1 | 1,615,994 |

[^10]Table 5
Number of OCNs Reporting Numbering Resources as of December 31, $2017^{1}$

| State / Jurisdiction | Competitive $\mathrm{LEC}^{2}$ | Incumbent $\mathrm{LEC}^{2}$ | Mobile Wireless ${ }^{2}$ | Paging ${ }^{2}$ | VoIP ${ }^{2}$ | Unduplicated Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Alabama | 48 | 31 | 10 | 6 | 3 | 98 |
| Alaska | 4 | 23 | 13 | 0 | 1 | 41 |
| American Samoa | 0 | 1 | 3 | 0 | 0 | 4 |
| Arizona | 32 | 18 | 8 | 5 | 4 | 67 |
| Arkansas | 27 | 31 | 8 | 5 | 2 | 73 |
| California | 61 | 26 | 8 | 7 | 4 | 106 |
| Colorado | 40 | 35 | 13 | 3 | 4 | 95 |
| Connecticut | 29 | 2 | 6 | 3 | 3 | 43 |
| Delaware | 25 | 1 | 5 | 4 | 2 | 37 |
| District Of Columbia | 37 | 1 | 6 | 3 | 3 | 50 |
| Florida | 67 | 12 | 13 | 5 | 6 | 103 |
| Georgia | 66 | 36 | 11 | 5 | 5 | 123 |
| Guam | 3 | 1 | 3 | 0 | 0 | 7 |
| Hawaii | 9 | 2 | 4 | 1 | 1 | 17 |
| Idaho | 28 | 26 | 11 | 2 | 2 | 69 |
| Illinois | 66 | 57 | 13 | 5 | 4 | 145 |
| Indiana | 57 | 43 | 11 | 3 | 1 | 115 |
| Iowa | 79 | 159 | 15 | 3 | 2 | 258 |
| Kansas | 49 | 46 | 13 | 4 | 3 | 115 |
| Kentucky | 51 | 20 | 17 | 2 | 4 | 94 |
| Louisiana | 42 | 14 | 8 | 4 | 4 | 72 |
| Maine | 27 | 23 | 6 | 4 | 1 | 61 |
| Maryland | 52 | 2 | 10 | 4 | 4 | 72 |
| Massachusetts | 44 | 4 | 7 | 3 | 4 | 62 |
| Michigan | 59 | 41 | 10 | 4 | 2 | 116 |
| Minnesota | 72 | 97 | 11 | 2 | 3 | 185 |
| Mississippi | 38 | 19 | 9 | 4 | 3 | 73 |
| Missouri | 47 | 46 | 11 | 7 | 4 | 115 |
| Montana | 24 | 20 | 11 | 0 | 2 | 57 |
| Nebraska | 33 | 46 | 11 | 2 | 2 | 94 |
| Nevada | 35 | 14 | 8 | 3 | 4 | 64 |
| New Hampshire | 29 | 12 | 6 | 4 | 2 | 53 |
| New Jersey | 52 | 3 | 8 | 3 | 4 | 70 |
| New Mexico | 31 | 20 | 10 | 3 | 3 | 67 |
| New York | 68 | 41 | 9 | 6 | 7 | 131 |
| North Carolina | 55 | 26 | 10 | 3 | 4 | 98 |
| North Dakota | 24 | 34 | 8 | 0 | 2 | 68 |
| Northern Mariana Islands | 0 | 1 | 2 | 0 | 0 | 3 |
| Ohio | 61 | 43 | 9 | 3 | 4 | 120 |
| Oklahoma | 34 | 45 | 15 | 3 | 4 | 101 |
| Oregon | 43 | 32 | 8 | 3 | 4 | 90 |
| Pennsylvania | 63 | 38 | 20 | 7 | 4 | 132 |
| Puerto Rico | 5 | 1 | 6 | 0 | 0 | 12 |
| Rhode Island | 21 | 1 | 5 | 3 | 3 | 33 |
| South Carolina | 45 | 26 | 8 | 4 | 3 | 86 |
| South Dakota | 26 | 43 | 6 | 1 | 2 | 78 |
| Tennessee | 59 | 27 | 13 | 4 | 4 | 107 |
| Texas | 90 | 63 | 22 | 7 | 4 | 185 |
| Utah | 25 | 18 | 12 | 2 | 4 | 61 |
| Vermont | 19 | 10 | 5 | 3 | 2 | 39 |
| Virgin Islands | 1 | 1 | 5 | 0 | 0 | 7 |
| Virginia | 57 | 22 | 11 | 5 | 4 | 99 |
| Washington | 43 | 23 | 10 | 2 | 3 | 81 |
| West Virginia | 27 | 8 | 11 | 5 | 2 | 53 |
| Wisconsin | 51 | 92 | 12 | 3 | 3 | 161 |
| Wyoming | 15 | 14 | 8 | 0 | 2 | 39 |
| Unduplicated Total | 1,895 | 1,360 | 215 | 47 | 8 | 3,524 |

Source: Numbering Resource Utilization/Forecast Reports data filed with NeuStar, Inc. as of March 16, 2018.
${ }^{1}$ Carriers typically obtain at least one OCN per state in which they do business. Thus, carriers with multiple OCNs are counted multiple times with the exception that is noted following Table 3.
${ }^{2}$ Carriers occasionally misclassify the type of service that they provide. For instance, the competitive LEC operations of incumbent LECs are occasionally classified as incumbent LEC operations.

Table 6
Number Utilization by Area Code as of December 31, 2017

| Area Code | State / Jurisdiction | Area Code Opened | Assigned | Intermediate | Reserved | Aging | Administrative | Available | OCNs |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 201 | New Jersey | January 1947 | 63.3 \% | 0.8 \% | 0.8 \% | 3.2 \% | 0.7 \% | 31.1 \% | 50 |
| 202 | District Of Columbia | January 1947 | 74.1 \% | 0.9 \% | 1.1 \% | 2.9 \% | 0.4 \% | 20.7 \% | 50 |
| 203 | Connecticut | January 1947 | 59.0 \% | 0.9 \% | 0.6 \% | 2.1 \% | 0.3 \% | 37.2 \% | 36 |
| 205 | Alabama | January 1947 | 50.1 \% | 6.3 \% | 0.4 \% | 2.4 \% | $1.5 \%$ | 39.3 \% | 56 |
| 206 | Washington | January 1947 | 68.4 \% | 0.4 \% | 0.5 \% | $1.9 \%$ | 2.7 \% | 26.0 \% | 46 |
| 207 | Maine | January 1947 | 44.6 \% | 0.6 \% | 1.1 \% | 1.6 \% | 0.6 \% | 51.5 \% | 61 |
| 208 | Idaho | January 1947 | 53.1 \% | 0.9 \% | 0.9 \% | 1.7 \% | 3.2 \% | 40.2 \% | 69 |
| 209 | California | January 1958 | 54.2 \% | 0.9 \% | 0.3 \% | 2.4 \% | 0.7 \% | 41.5 \% | 50 |
| 210 | Texas | November 1992 | 69.0 \% | 2.3 \% | 0.4 \% | 2.3 \% | 0.7 \% | 25.4 \% | 43 |
| 212 | New York | January 1947 | 70.5 \% | 0.0 \% | $0.9 \%$ | 1.8 \% | $1.0 \%$ | 25.7 \% | 35 |
| 213 | California | January 1947 | 57.0 \% | 1.5 \% | 0.8 \% | 4.0 \% | 1.1 \% | 35.5 \% | 52 |
| 214 | Texas | January 1947 | 67.2 \% | 0.5 \% | 0.4 \% | 1.7 \% | 1.0 \% | 29.2 \% | 55 |
| 215 | Pennsylvania | January 1947 | 61.7 \% | 0.3 \% | 1.1 \% | 1.9 \% | 0.9 \% | 34.1 \% | 47 |
| 216 | Ohio | January 1947 | 58.7 \% | 0.6 \% | 0.4 \% | 2.3 \% | 0.7 \% | 37.3 \% | 40 |
| 217 | Illinois | January 1947 | 31.9 \% | 0.7 \% | 0.5 \% | 0.9 \% | 0.6 \% | 65.4 \% | 56 |
| 218 | Minnesota | January 1947 | 29.6 \% | 0.3 \% | 0.4 \% | 0.7 \% | 1.0 \% | 67.9 \% | 73 |
| 219 | Indiana | January 1947 | 49.8 \% | $1.5 \%$ | 0.7 \% | $1.5 \%$ | 0.3 \% | 46.2 \% | 40 |
| 220 | Ohio | April 2015 | 17.7 \% | 0.4 \% | 0.0 \% | 0.4 \% | 0.0 \% | 81.5 \% | 7 |
| 223 | Pennsylvania | September 2017 | 3.8 \% | 0.0 \% | 0.0 \% | 0.0 \% | 0.0 \% | 96.2 \% | 3 |
| 224 | Illinois | January 2002 | 60.3 \% | $1.5 \%$ | 2.9 \% | 3.0 \% | 0.4 \% | 32.0 \% | 38 |
| 225 | Louisiana | August 1998 | 52.4 \% | 6.4 \% | 0.3 \% | 2.0 \% | 1.3 \% | 37.6 \% | 41 |
| 228 | Mississippi | September 1997 | 46.8 \% | 3.4 \% | 0.2 \% | 1.8 \% | $1.5 \%$ | 46.3 \% | 35 |
| 229 | Georgia | August 2000 | 23.8 \% | 2.4 \% | 0.3 \% | $1.1 \%$ | 0.4 \% | 72.0 \% | 42 |
| 231 | Michigan | June 1999 | 31.7 \% | 0.6 \% | 0.3 \% | $0.9 \%$ | 0.2 \% | 66.4 \% | 47 |
| 234 | Ohio | October 2000 | 51.6 \% | 1.8 \% | 0.9 \% | 2.4 \% | 0.3 \% | 42.9 \% | 37 |
| 239 | Florida | March 2002 | 61.9 \% | 0.4 \% | 1.8 \% | 3.5 \% | 0.9 \% | 31.4 \% | 34 |
| 240 | Maryland | June 1997 | 56.0 \% | 0.9 \% | 0.5 \% | 3.4 \% | 0.3 \% | 38.9 \% | 57 |
| 248 | Michigan | May 1997 | 58.6 \% | 0.4 \% | 0.5 \% | 1.8 \% | 0.4 \% | 38.3 \% | 49 |
| 251 | Alabama | June 2001 | 42.7 \% | 4.9 \% | 0.4 \% | $1.9 \%$ | 1.3 \% | 48.7 \% | 45 |
| 252 | North Carolina | March 1998 | 45.2 \% | 0.8 \% | 0.9 \% | 1.8 \% | 0.6 \% | 50.7 \% | 35 |
| 253 | Washington | April 1997 | 64.9 \% | 0.5 \% | 0.5 \% | 1.9 \% | 2.3 \% | 29.8 \% | 38 |
| 254 | Texas | May 1997 | 37.5 \% | 1.4 \% | 0.9 \% | 1.3 \% | 0.6 \% | 58.4 \% | 53 |
| 256 | Alabama | March 1998 | 44.8 \% | $5.5 \%$ | 0.3 \% | 1.6 \% | 1.1 \% | 46.7 \% | 48 |
| 260 | Indiana | January 2002 | 44.2 \% | 1.0 \% | 0.9 \% | 1.2 \% | 0.3 \% | 52.4 \% | 35 |
| 262 | Wisconsin | September 1999 | 51.4 \% | $0.9 \%$ | 0.7 \% | $1.3 \%$ | 0.4 \% | 45.4 \% | 40 |
| 267 | Pennsylvania | July 1999 | 55.0 \% | 1.1 \% | 1.9 \% | 4.0 \% | 0.5 \% | 37.5 \% | 51 |
| 269 | Michigan | July 2002 | 40.7 \% | 0.8 \% | 0.5 \% | $1.3 \%$ | 0.7 \% | 56.0 \% | 51 |
| 270 | Kentucky | April 1999 | 22.7 \% | 3.0 \% | 0.6 \% | 1.0 \% | 0.4 \% | 72.3 \% | 58 |
| 272 | Pennsylvania | October 2013 | 14.3 \% | 0.4 \% | 1.2 \% | 0.9 \% | 0.1 \% | 83.1 \% | 25 |
| 276 | Virginia | September 2001 | 36.6 \% | 0.4 \% | 0.5 \% | 1.4 \% | 0.6 \% | 60.4 \% | 43 |
| 281 | Texas | November 1996 | 57.3 \% | 2.6 \% | 0.7 \% | 1.7 \% | 0.5 \% | 37.3 \% | 52 |
| 301 | Maryland | January 1947 | 60.7 \% | 0.5 \% | 0.8 \% | $1.9 \%$ | 0.7 \% | 35.5 \% | 48 |
| 302 | Delaware | January 1947 | 56.9 \% | 1.0 \% | 0.8 \% | 2.2 \% | 0.4 \% | 38.8 \% | 37 |
| 303 | Colorado | January 1947 | 62.6 \% | 0.1 \% | 0.4 \% | 1.7 \% | 5.2 \% | 30.1 \% | 38 |
| 304 | West Virginia | January 1947 | 43.8 \% | 0.7 \% | 0.4 \% | $1.1 \%$ | 0.5 \% | 53.5 \% | 52 |
| 305 | Florida | January 1947 | 49.8 \% | 11.3 \% | 2.1 \% | 2.9 \% | 1.2 \% | 32.7 \% | 45 |
| 307 | Wyoming | January 1947 | 37.0 \% | 0.4 \% | 1.0 \% | 1.2 \% | 2.0 \% | 58.4 \% | 39 |
| 308 | Nebraska | January 1955 | 34.1 \% | 0.3 \% | 0.3 \% | $1.4 \%$ | 2.4 \% | 61.4 \% | 52 |
| 309 | Illinois | January 1957 | 36.7 \% | $0.5 \%$ | 0.7 \% | 0.8 \% | 0.7 \% | 60.6 \% | 62 |
| 310 | California | November 1991 | 61.4 \% | 0.7 \% | 0.8 \% | 2.0 \% | 0.5 \% | 34.7 \% | 47 |
| 312 | Illinois | January 1947 | 63.1 \% | 1.3 \% | 0.6 \% | 2.2 \% | 1.0 \% | 31.8 \% | 44 |
| 313 | Michigan | January 1947 | 53.7 \% | 1.2 \% | 0.4 \% | 2.4 \% | 0.7 \% | 41.7 \% | 44 |
| 314 | Missouri | January 1947 | 61.6 \% | 2.1 \% | 0.4 \% | 2.6 \% | 0.8 \% | 32.3 \% | 37 |
| 315 | New York | January 1947 | 46.9 \% | 0.7 \% | 1.0 \% | 2.2 \% | 0.5 \% | 48.7 \% | 56 |
| 316 | Kansas | January 1947 | 65.1 \% | 2.3 \% | $0.5 \%$ | 2.7 \% | $0.6 \%$ | 28.8 \% | 33 |
| 317 | Indiana | January 1947 | 59.5 \% | 1.6 \% | 0.6 \% | 1.9 \% | 0.7 \% | 35.6 \% | 45 |
| 318 | Louisiana | January 1957 | 39.8 \% | 4.1 \% | 1.0 \% | 1.5 \% | 1.4 \% | 52.1 \% | 43 |
| 319 | Iowa | January 1947 | 39.0 \% | $1.5 \%$ | 0.5 \% | 1.6 \% | 1.6 \% | 55.9 \% | 78 |
| 320 | Minnesota | March 1996 | 32.7 \% | 0.9 \% | 0.4 \% | 1.8 \% | 0.7 \% | 63.5 \% | 75 |
| 321 | Florida | November 1999 | 59.0 \% | 6.0 \% | $0.5 \%$ | $5.2 \%$ | 0.8 \% | 28.5 \% | 45 |
| 323 | California | June 1998 | 59.6 \% | 1.4 \% | 0.8 \% | 3.6 \% | 0.7 \% | 33.9 \% | 48 |
| 325 | Texas | April 2003 | 31.9 \% | 0.9 \% | 0.6 \% | 0.9 \% | 0.5 \% | 65.1 \% | 41 |
| 330 | Ohio | March 1996 | 54.1 \% | 0.6 \% | 0.5 \% | $1.7 \%$ | 0.6 \% | 42.6 \% | 42 |
| 331 | Illinois | October 2007 | 51.8 \% | 2.0 \% | 1.8 \% | 2.7 \% | 0.7 \% | 41.1 \% | 37 |
| 332 | New York | June 2017 | 56.2 \% | 5.0 \% | 0.4 \% | 2.9 \% | 0.0 \% | 35.4 \% | 9 |

Table 6
Number Utilization by Area Code as of December 31, 2017

| Area Code | State / Jurisdiction | Area Code Opened | Assigned | Intermediate | Reserved | Aging | Administrative | Available | OCNs |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 334 | Alabama | January 1995 | 36.5 \% | 3.9 \% | 0.5 \% | 1.4 \% | 0.9 \% | 56.8 \% | 60 |
| 336 | North Carolina | December 1997 | 49.6 \% | 4.4 \% | 0.6 \% | 2.2 \% | 0.9 \% | 42.2 \% | 60 |
| 337 | Louisiana | October 1999 | 39.1 \% | 4.7 \% | 0.5 \% | 1.7 \% | 1.0 \% | 53.0 \% | 40 |
| 339 | Massachusetts | May 2001 | 60.6 \% | 1.7 \% | 0.8 \% | 2.2 \% | 0.5 \% | 34.2 \% | 27 |
| 340 | Virgin Islands | June 1997 | 39.0 \% | 2.7 \% | 1.1 \% | 3.1 \% | 1.4 \% | 52.6 \% | 7 |
| 346 | Texas | July 2014 | 59.0 \% | 2.0 \% | 1.4 \% | 4.4 \% | 0.3 \% | 32.9 \% | 36 |
| 347 | New York | October 1999 | 80.9 \% | 0.8 \% | 0.9 \% | 3.7 \% | 0.5 \% | 13.3 \% | 40 |
| 351 | Massachusetts | May 2001 | 31.6 \% | 3.1 \% | 0.3 \% | 1.2 \% | 0.1 \% | 63.6 \% | 17 |
| 352 | Florida | December 1995 | 53.7 \% | 2.5 \% | 0.8 \% | 2.3 \% | 1.0 \% | 39.8 \% | 41 |
| 360 | Washington | January 1995 | 56.4 \% | 0.5 \% | 0.6 \% | 1.4 \% | 1.8 \% | 39.2 \% | 60 |
| 361 | Texas | February 1999 | 41.0 \% | 1.0 \% | 0.4 \% | 1.5 \% | 0.7 \% | 55.4 \% | 43 |
| 364 | Kentucky | March 2014 | 0.0 \% | 0.0 \% | 0.0 \% | 0.0 \% | 0.0 \% | 100.0 \% | 2 |
| 380 | Ohio | February 2016 | 29.8 \% | 0.4 \% | 0.5 \% | 2.0 \% | 0.0 \% | 67.3 \% | 12 |
| 385 | Utah | March 2009 | 70.2 \% | 2.0 \% | 0.9 \% | 2.9 \% | 0.6 \% | 23.5 \% | 31 |
| 386 | Florida | February 2001 | 48.3 \% | 7.2 \% | 0.5 \% | 2.4 \% | 0.7 \% | 40.9 \% | 40 |
| 401 | Rhode Island | January 1947 | 53.9 \% | 0.8 \% | 1.0 \% | 2.1 \% | 0.4 \% | 41.8 \% | 33 |
| 402 | Nebraska | January 1947 | 48.9 \% | 0.8 \% | 0.5 \% | 1.3 \% | $1.5 \%$ | 47.0 \% | 65 |
| 404 | Georgia | January 1947 | 64.2 \% | 8.0 \% | 0.6 \% | 3.1 \% | 2.1 \% | 22.0 \% | 44 |
| 405 | Oklahoma | January 1947 | 49.5 \% | 2.9 \% | 0.5 \% | 1.9 \% | 0.9 \% | 44.4 \% | 49 |
| 406 | Montana | January 1947 | 31.8 \% | 0.3 \% | 0.4 \% | 0.9 \% | 1.0 \% | 65.5 \% | 57 |
| 407 | Florida | April 1988 | 59.0 \% | 5.2 \% | 1.5 \% | 3.7 \% | 0.9 \% | 29.7 \% | 49 |
| 408 | California | January 1959 | 62.2 \% | 1.3 \% | 0.4 \% | 1.6 \% | 0.6 \% | 33.9 \% | 54 |
| 409 | Texas | November 1982 | 43.1 \% | 4.7 \% | 0.7 \% | 1.6 \% | 0.4 \% | 49.5 \% | 45 |
| 410 | Maryland | October 1991 | 57.5 \% | 0.4 \% | 0.7 \% | 1.4 \% | 0.7 \% | 39.4 \% | 48 |
| 412 | Pennsylvania | January 1947 | 55.8 \% | 0.6 \% | 1.0 \% | 2.4 \% | 0.7 \% | 39.5 \% | 45 |
| 413 | Massachusetts | January 1947 | 51.3 \% | 1.5 \% | 1.2 \% | 2.0 \% | 0.4 \% | 43.7 \% | 37 |
| 414 | Wisconsin | January 1947 | 62.1 \% | 1.6 \% | 0.6 \% | 2.0 \% | 1.1 \% | 32.6 \% | 35 |
| 415 | California | January 1947 | 61.4 \% | 1.9 \% | 0.7 \% | 2.1 \% | 0.6 \% | 33.4 \% | 53 |
| 417 | Missouri | January 1950 | 37.7 \% | 1.6 \% | 0.7 \% | 1.2 \% | 0.7 \% | 58.1 \% | 55 |
| 419 | Ohio | January 1947 | 39.8 \% | $3.5 \%$ | 0.8 \% | $1.1 \%$ | 0.5 \% | 54.3 \% | 65 |
| 423 | Tennessee | September 1995 | 47.8 \% | 4.3 \% | 0.8 \% | 2.1 \% | 0.7 \% | 44.4 \% | 56 |
| 424 | California | August 2006 | 62.2 \% | $2.5 \%$ | 1.2 \% | $5.1 \%$ | 0.3 \% | 28.7 \% | 47 |
| 425 | Washington | April 1997 | 66.8 \% | 0.5 \% | 1.1 \% | $1.7 \%$ | $1.5 \%$ | 28.5 \% | 39 |
| 430 | Texas | February 2003 | 16.8 \% | 1.4 \% | 0.3 \% | 1.6 \% | 0.1 \% | 79.8 \% | 30 |
| 432 | Texas | April 2003 | 38.5 \% | 2.6 \% | 2.4 \% | 1.3 \% | 0.3 \% | 54.9 \% | 31 |
| 434 | Virginia | June 2001 | 47.4 \% | 0.8 \% | 0.7 \% | $1.5 \%$ | 0.7 \% | 48.9 \% | 37 |
| 435 | Utah | September 1997 | 40.5 \% | 0.4 \% | 0.3 \% | 1.6 \% | 1.8 \% | 55.4 \% | 52 |
| 440 | Ohio | August 1997 | 56.7 \% | 0.7 \% | 0.9 \% | 1.9 \% | 0.3 \% | 39.6 \% | 48 |
| 442 | California | November 2009 | 39.4 \% | 2.0 \% | 0.8 \% | 4.1 \% | 0.1 \% | 53.6 \% | 40 |
| 443 | Maryland | June 1997 | 54.9 \% | 1.0 \% | 0.6 \% | 4.0 \% | 0.3 \% | 39.1 \% | 46 |
| 458 | Oregon | February 2010 | 24.6 \% | 1.4 \% | 0.8 \% | 1.7 \% | 0.0 \% | 71.4 \% | 20 |
| 463 | Indiana | November 2016 | 19.0 \% | 0.8 \% | 0.3 \% | 0.9 \% | 0.0 \% | 79.0 \% | 13 |
| 469 | Texas | July 1999 | 69.0 \% | 1.6 \% | 0.9 \% | 2.8 \% | 0.9 \% | 24.7 \% | 61 |
| 470 | Georgia | February 2010 | 59.6 \% | 3.1 \% | 1.0 \% | 3.1 \% | 0.4 \% | 32.8 \% | 45 |
| 475 | Connecticut | December 2009 | 54.7 \% | 1.3 \% | 1.1 \% | 2.2 \% | 0.3 \% | 40.3 \% | 27 |
| 478 | Georgia | August 2000 | 39.9 \% | 3.4 \% | 0.5 \% | 2.0 \% | 0.8 \% | 53.4 \% | 44 |
| 479 | Arkansas | January 2002 | 47.3 \% | 1.7 \% | 0.5 \% | 1.4 \% | 0.8 \% | 48.4 \% | 39 |
| 480 | Arizona | March 1999 | 75.4 \% | 0.6 \% | 0.9 \% | 2.7 \% | 3.8 \% | 16.5 \% | 39 |
| 484 | Pennsylvania | June 1999 | 50.0 \% | $1.5 \%$ | 0.6 \% | 2.7 \% | 0.2 \% | 45.0 \% | 51 |
| 501 | Arkansas | January 1947 | 50.8 \% | 3.1 \% | 0.6 \% | 1.4 \% | 0.7 \% | 43.4 \% | 38 |
| 502 | Kentucky | January 1947 | 48.9 \% | 7.1 \% | 0.4 \% | 2.6 \% | 0.9 \% | 40.1 \% | 40 |
| 503 | Oregon | January 1947 | 62.2 \% | 0.4 \% | 0.7 \% | 1.9 \% | 2.2 \% | 32.6 \% | 55 |
| 504 | Louisiana | January 1947 | 50.6 \% | 7.1 \% | 0.5 \% | 4.1 \% | 1.3 \% | 36.3 \% | 41 |
| 505 | New Mexico | January 1947 | 61.2 \% | 0.5 \% | 0.5 \% | 2.2 \% | $3.5 \%$ | 32.1 \% | 44 |
| 507 | Minnesota | January 1954 | 30.4 \% | 0.4 \% | $0.9 \%$ | $0.6 \%$ | 0.5 \% | 67.3 \% | 87 |
| 508 | Massachusetts | July 1988 | 59.2 \% | 0.8 \% | 1.6 \% | 2.8 \% | 0.7 \% | 34.8 \% | 42 |
| 509 | Washington | January 1957 | 52.5 \% | 0.4 \% | 1.1 \% | $1.5 \%$ | 1.4 \% | 43.2 \% | 55 |
| 510 | California | September 1991 | 57.3 \% | $1.5 \%$ | 0.6 \% | 2.0 \% | 0.7 \% | 38.0 \% | 48 |
| 512 | Texas | January 1947 | 68.6 \% | 1.9 \% | 0.7 \% | 1.8 \% | 0.6 \% | 26.3 \% | 50 |
| 513 | Ohio | January 1947 | 62.7 \% | 0.6 \% | 0.4 \% | $1.9 \%$ | 0.9 \% | 33.4 \% | 35 |
| 515 | Iowa | January 1947 | 52.8 \% | 1.4 \% | 0.7 \% | 1.8 \% | 2.8 \% | 40.5 \% | 61 |
| 516 | New York | January 1951 | 60.6 \% | 0.7 \% | 0.8 \% | 2.5 \% | 0.7 \% | 34.6 \% | 47 |
| 517 | Michigan | January 1947 | 42.0 \% | 0.5 \% | 0.6 \% | 1.0 \% | 0.3 \% | 55.6 \% | 59 |
| 518 | New York | January 1947 | 49.7 \% | 0.7 \% | 0.7 \% | 2.6 \% | 0.6 \% | 45.7 \% | 63 |
| 520 | Arizona | March 1995 | 60.4 \% | 0.6 \% | 0.7 \% | 2.2 \% | 2.9 \% | 33.2 \% | 48 |

Table 6
Number Utilization by Area Code as of December 31, 2017

| Area Code | State / Jurisdiction | Area Code Opened | Assigned | Intermediate | Reserved | Aging | Administrative | Available | OCNs |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 530 | California | November 1997 | 41.5 \% | 1.2 \% | 0.3 \% | 1.4 \% | 0.5 \% | 55.0 \% | 62 |
| 531 | Nebraska | March 2011 | 41.9 \% | 0.7 \% | 0.7 \% | 3.0 \% | 0.0 \% | 53.7 \% | 24 |
| 534 | Wisconsin | August 2010 | 9.9 \% | 1.0 \% | 0.1 \% | 0.9 \% | 0.0 \% | 88.1 \% | 8 |
| 539 | Oklahoma | April 2011 | 17.0 \% | 1.4 \% | 0.2 \% | 1.0 \% | 0.3 \% | 80.0 \% | 25 |
| 540 | Virginia | July 1995 | 52.2 \% | 0.6 \% | 0.7 \% | 1.6 \% | 0.8 \% | 44.1 \% | 60 |
| 541 | Oregon | November 1995 | 46.2 \% | 0.8 \% | 1.7 \% | 1.6 \% | 1.6 \% | 48.1 \% | 59 |
| 551 | New Jersey | December 2001 | 61.0 \% | 1.3 \% | 1.4 \% | 4.2 \% | 0.2 \% | 31.9 \% | 29 |
| 559 | California | November 1998 | 50.6 \% | 1.4 \% | 0.4 \% | 2.7 \% | 0.9 \% | 44.1 \% | 47 |
| 561 | Florida | May 1996 | 55.8 \% | 9.0 \% | 1.7 \% | 4.1 \% | $1.5 \%$ | 28.0 \% | 53 |
| 562 | California | January 1997 | 57.9 \% | 0.6 \% | 0.9 \% | 2.4 \% | 0.7 \% | 37.6 \% | 50 |
| 563 | Iowa | March 2001 | 41.2 \% | 0.4 \% | 0.3 \% | 1.9 \% | 0.9 \% | 55.4 \% | 62 |
| 564 | Washington | August 2017 | 85.0 \% | 0.0 \% | 0.0 \% | 0.0 \% | 0.0 \% | 15.0 \% | 1 |
| 567 | Ohio | January 2002 | 29.1 \% | 1.6 \% | 0.4 \% | 1.2 \% | 0.2 \% | 67.5 \% | 42 |
| 570 | Pennsylvania | December 1998 | 44.2 \% | 0.8 \% | 1.6 \% | $1.5 \%$ | 0.6 \% | 51.2 \% | 61 |
| 571 | Virginia | March 2000 | 73.2 \% | 1.1 \% | 1.0 \% | 3.4 \% | 0.4 \% | 20.8 \% | 50 |
| 573 | Missouri | January 1996 | 33.8 \% | 0.8 \% | 0.5 \% | 1.0 \% | 0.5 \% | 63.4 \% | 52 |
| 574 | Indiana | January 2002 | 44.5 \% | 1.0 \% | 0.8 \% | $1.9 \%$ | 0.4 \% | 51.5 \% | 43 |
| 575 | New Mexico | October 2007 | 33.8 \% | 0.8 \% | $2.6 \%$ | 1.4 \% | 1.8 \% | 59.6 \% | 53 |
| 580 | Oklahoma | November 1997 | 22.4 \% | 2.0 \% | 1.3 \% | 1.1 \% | 0.4 \% | 72.8 \% | 54 |
| 585 | New York | November 2001 | 56.3 \% | 0.6 \% | 0.9 \% | 2.5 \% | 0.3 \% | 39.3 \% | 43 |
| 586 | Michigan | September 2001 | 63.5 \% | 0.4 \% | 0.3 \% | 1.3 \% | 0.3 \% | 34.2 \% | 42 |
| 601 | Mississippi | January 1947 | 40.1 \% | 5.3 \% | 0.3 \% | 1.6 \% | 1.1 \% | 51.6 \% | 50 |
| 602 | Arizona | January 1947 | 64.8 \% | 0.6 \% | 0.7 \% | 2.0 \% | 2.2 \% | 29.6 \% | 33 |
| 603 | New Hampshire | January 1947 | 48.3 \% | 0.6 \% | 1.2 \% | 2.5 \% | 0.3 \% | 47.1 \% | 53 |
| 605 | South Dakota | January 1947 | 30.9 \% | 0.3 \% | 0.3 \% | 0.9 \% | 1.0 \% | 66.7 \% | 78 |
| 606 | Kentucky | January 1955 | 24.9 \% | 1.5 \% | 0.4 \% | 1.2 \% | 0.4 \% | 71.6 \% | 49 |
| 607 | New York | January 1954 | 39.9 \% | 0.6 \% | 1.8 \% | 1.6 \% | 0.3 \% | 55.9 \% | 47 |
| 608 | Wisconsin | January 1955 | 45.2 \% | 0.9 \% | 1.0 \% | 1.1 \% | 0.6 \% | 51.1 \% | 77 |
| 609 | New Jersey | January 1957 | 54.3 \% | 0.8 \% | 1.1 \% | 2.4 \% | 0.5 \% | 40.9 \% | 49 |
| 610 | Pennsylvania | January 1994 | 56.2 \% | 0.4 \% | $0.5 \%$ | 1.3 \% | $0.6 \%$ | 41.1 \% | 57 |
| 612 | Minnesota | January 1947 | 73.0 \% | 0.6 \% | 0.5 \% | 2.2 \% | 1.6 \% | 22.2 \% | 46 |
| 614 | Ohio | January 1947 | 66.6 \% | 0.7 \% | 0.6 \% | 2.7 \% | 0.6 \% | 28.8 \% | 42 |
| 615 | Tennessee | January 1954 | 55.1 \% | 7.9 \% | 0.6 \% | 3.3 \% | 1.2 \% | 31.8 \% | 48 |
| 616 | Michigan | January 1947 | 54.5 \% | 0.7 \% | 0.5 \% | 1.4 \% | 0.4 \% | 42.5 \% | 46 |
| 617 | Massachusetts | January 1947 | 65.7 \% | 0.5 \% | 1.3 \% | 2.8 \% | 0.6 \% | 29.1 \% | 39 |
| 618 | Illinois | January 1947 | 31.9 \% | 0.4 \% | 0.5 \% | 1.0 \% | 0.4 \% | 65.7 \% | 60 |
| 619 | California | January 1982 | 59.3 \% | 1.3 \% | 0.5 \% | 2.7 \% | 0.8 \% | 35.4 \% | 48 |
| 620 | Kansas | February 2001 | 19.0 \% | 2.2 \% | 2.9 \% | 0.7 \% | 0.4 \% | 74.8 \% | 71 |
| 623 | Arizona | March 1999 | 70.1 \% | 0.7 \% | 1.5 \% | 3.1 \% | 7.2 \% | 17.4 \% | 30 |
| 626 | California | June 1997 | 60.7 \% | 1.3 \% | 1.1 \% | 3.2 \% | 0.7 \% | 33.0 \% | 48 |
| 628 | California | March 2015 | 40.7 \% | 2.7 \% | 0.9 \% | 2.7 \% | 0.1 \% | 52.9 \% | 32 |
| 629 | Tennessee | March 2015 | 45.8 \% | $1.6 \%$ | 3.0 \% | $1.5 \%$ | 0.1 \% | 48.0 \% | 25 |
| 630 | Illinois | August 1996 | 54.4 \% | 0.7 \% | 0.7 \% | $1.7 \%$ | 0.6 \% | 41.9 \% | 43 |
| 631 | New York | November 1999 | 54.0 \% | 0.8 \% | 0.7 \% | 2.5 \% | 0.6 \% | 41.4 \% | 44 |
| 636 | Missouri | May 1999 | 45.2 \% | 1.1 \% | 0.8 \% | 2.3 \% | 0.3 \% | 50.3 \% | 37 |
| 641 | Iowa | July 2000 | 19.6 \% | 1.8 \% | 1.1 \% | 0.8 \% | 0.4 \% | 76.3 \% | 68 |
| 646 | New York | July 1999 | 79.3 \% | 1.0 \% | 0.9 \% | 5.2 \% | 0.7 \% | 12.8 \% | 52 |
| 650 | California | August 1997 | 55.9 \% | $1.5 \%$ | 0.4 \% | 1.7 \% | 0.6 \% | 39.8 \% | 47 |
| 651 | Minnesota | July 1998 | 66.4 \% | 0.4 \% | 0.5 \% | 1.6 \% | 2.8 \% | 28.3 \% | 51 |
| 657 | California | September 2008 | 59.5 \% | $2.6 \%$ | 2.2 \% | 4.6 \% | 0.4 \% | 30.7 \% | 35 |
| 660 | Missouri | October 1997 | 20.6 \% | 1.2 \% | 0.3 \% | 0.5 \% | 0.3 \% | 77.1 \% | 54 |
| 661 | California | February 1999 | 54.3 \% | 1.2 \% | 0.4 \% | 2.7 \% | 0.6 \% | 40.8 \% | 57 |
| 662 | Mississippi | April 1999 | 31.8 \% | 4.2 \% | 0.2 \% | 1.4 \% | 0.9 \% | 61.5 \% | 55 |
| 667 | Maryland | March 2012 | 43.1 \% | 0.9 \% | 1.0 \% | 1.8 \% | 0.3 \% | 52.9 \% | 31 |
| 669 | California | November 2012 | 55.4 \% | $2.5 \%$ | 1.7 \% | 3.8 \% | 0.3 \% | 36.4 \% | 33 |
| 670 | Northern Marianas Islands | July 1997 | 34.9 \% | 0.0 \% | 1.9 \% | 1.2 \% | 0.5 \% | 61.6 \% | 3 |
| 671 | Guam | July 1997 | 39.9 \% | 0.0 \% | 0.7 \% | 3.0 \% | 0.2 \% | 56.2 \% | 7 |
| 678 | Georgia | January 1998 | 67.3 \% | 5.3 \% | 1.2 \% | 5.1 \% | 0.6 \% | 20.5 \% | 52 |
| 680 | New York | March 2017 | 22.3 \% | 0.0 \% | 0.0 \% | 0.1 \% | 0.0 \% | 77.6 \% | 4 |
| 681 | West Virginia | March 2009 | 18.9 \% | 0.9 \% | 0.2 \% | $1.4 \%$ | 0.2 \% | 78.5 \% | 30 |
| 682 | Texas | October 2000 | 69.1 \% | 1.1 \% | 0.9 \% | 3.1 \% | 0.5 \% | 25.2 \% | 44 |
| 684 | American Samoa | October 2004 | 42.2 \% | 0.0 \% | 0.8 \% | 0.0 \% | 2.1 \% | 54.8 \% | 4 |
| 701 | North Dakota | January 1947 | 26.5 \% | 0.3 \% | 0.6 \% | 0.7 \% | 0.8 \% | 71.1 \% | 68 |
| 702 | Nevada | January 1947 | 70.3 \% | 0.7 \% | 1.4 \% | 3.3 \% | 0.7 \% | 23.6 \% | 46 |
| 703 | Virginia | January 1947 | 68.1 \% | 0.5 \% | 0.5 \% | 2.5 \% | 0.4 \% | 28.1 \% | 43 |

Table 6
Number Utilization by Area Code as of December 31, 2017

| Area Code | State / Jurisdiction | Area Code Opened | Assigned | Intermediate | Reserved | Aging | Administrative | Available | OCNs |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 704 | North Carolina | January 1947 | 55.2 \% | 7.7 \% | 0.7 \% | 2.9 \% | 1.1 \% | 32.4 \% | 45 |
| 706 | Georgia | May 1992 | 44.3 \% | 4.4 \% | 0.5 \% | 1.8 \% | 0.9 \% | 48.1 \% | 76 |
| 707 | California | January 1959 | 48.3 \% | 1.3 \% | 0.4 \% | $1.5 \%$ | 0.8 \% | 47.8 \% | 51 |
| 708 | Illinois | November 1989 | 44.6 \% | 0.7 \% | 0.6 \% | 2.2 \% | 0.6 \% | 51.3 \% | 40 |
| 712 | Iowa | January 1947 | 22.3 \% | 1.3 \% | 0.4 \% | 0.8 \% | 0.7 \% | 74.5 \% | 105 |
| 713 | Texas | January 1947 | 58.2 \% | 2.5 \% | 0.4 \% | 1.2 \% | 0.7 \% | 37.0 \% | 45 |
| 714 | California | January 1951 | 61.6 \% | 0.6 \% | 0.6 \% | 2.3 \% | 1.6 \% | 33.3 \% | 48 |
| 715 | Wisconsin | January 1947 | 31.1 \% | 0.5 \% | 0.5 \% | 0.8 \% | 0.2 \% | 66.9 \% | 90 |
| 716 | New York | January 1947 | 55.4 \% | 0.7 \% | 0.8 \% | 2.6 \% | 0.5 \% | 40.0 \% | 48 |
| 717 | Pennsylvania | January 1947 | 57.2 \% | 0.6 \% | 0.7 \% | 2.5 \% | 0.6 \% | 38.3 \% | 53 |
| 718 | New York | September 1984 | 58.9 \% | 0.2 \% | 0.7 \% | 2.4 \% | 0.9 \% | 36.9 \% | 38 |
| 719 | Colorado | March 1988 | 54.1 \% | 0.4 \% | 0.6 \% | 2.3 \% | 2.7 \% | 40.0 \% | 56 |
| 720 | Colorado | June 1998 | 77.5 \% | 1.1 \% | 1.0 \% | 2.9 \% | 1.3 \% | 16.2 \% | 44 |
| 724 | Pennsylvania | February 1998 | 40.4 \% | $1.0 \%$ | 0.6 \% | 1.3 \% | 0.5 \% | 56.2 \% | 57 |
| 725 | Nevada | June 2014 | 63.9 \% | 2.1 \% | 1.1 \% | 3.0 \% | 0.1 \% | 29.8 \% | 20 |
| 726 | Texas | October 2017 | 10.0 \% | 0.0 \% | 0.5 \% | 0.0 \% | 0.1 \% | 89.4 \% | 12 |
| 727 | Florida | July 1998 | 51.7 \% | 0.5 \% | 1.1 \% | 2.9 \% | 0.3 \% | 43.5 \% | 41 |
| 731 | Tennessee | February 2001 | 36.5 \% | 3.6 \% | 0.3 \% | 1.4 \% | 0.7 \% | 57.4 \% | 45 |
| 732 | New Jersey | June 1997 | 58.0 \% | 1.0 \% | 0.5 \% | 2.2 \% | 0.5 \% | 37.8 \% | 45 |
| 734 | Michigan | December 1997 | 56.5 \% | 0.4 \% | 0.6 \% | 1.6 \% | 0.3 \% | 40.6 \% | 51 |
| 737 | Texas | July 2013 | 48.9 \% | 1.2 \% | 2.3 \% | 3.1 \% | 0.5 \% | 44.0 \% | 30 |
| 740 | Ohio | December 1997 | 37.8 \% | 1.2 \% | 0.5 \% | 1.4 \% | 0.3 \% | 58.8 \% | 49 |
| 743 | North Carolina | May 2016 | 21.5 \% | 5.8 \% | 2.2 \% | 1.1 \% | 0.0 \% | 69.3 \% | 9 |
| 747 | California | May 2009 | 50.7 \% | 2.3 \% | 0.7 \% | $5.1 \%$ | 0.1 \% | 41.0 \% | 33 |
| 754 | Florida | August 2001 | 73.4 \% | 4.0 \% | 0.6 \% | 4.7 \% | 0.4 \% | 16.9 \% | 32 |
| 757 | Virginia | July 1996 | 64.7 \% | 0.5 \% | 0.8 \% | 2.1 \% | 0.6 \% | 31.2 \% | 34 |
| 760 | California | March 1997 | 53.7 \% | 1.3 \% | 0.5 \% | 2.0 \% | 0.5 \% | 41.9 \% | 61 |
| 762 | Georgia | May 2006 | 16.8 \% | 1.2 \% | 0.2 \% | 1.4 \% | 0.3 \% | 80.2 \% | 39 |
| 763 | Minnesota | February 2000 | 63.0 \% | 1.4 \% | 0.6 \% | 2.0 \% | 2.5 \% | 30.5 \% | 55 |
| 765 | Indiana | February 1997 | 34.7 \% | $2.1 \%$ | $0.5 \%$ | $1.1 \%$ | 0.4 \% | 61.3 \% | 62 |
| 769 | Mississippi | March 2005 | 33.4 \% | 1.8 \% | 0.3 \% | 2.0 \% | 1.7 \% | 60.9 \% | 28 |
| 770 | Georgia | August 1995 | 52.7 \% | 16.2 \% | 0.4 \% | $1.5 \%$ | 0.7 \% | 28.5 \% | 47 |
| 772 | Florida | February 2002 | 49.5 \% | 7.5 \% | 1.2 \% | 4.0 \% | $2.0 \%$ | 35.8 \% | 47 |
| 773 | Illinois | October 1996 | 52.1 \% | 0.6 \% | 0.5 \% | 2.5 \% | 0.5 \% | 43.7 \% | 39 |
| 774 | Massachusetts | May 2001 | 47.5 \% | 1.4 \% | 0.6 \% | 2.5 \% | 0.3 \% | 47.7 \% | 37 |
| 775 | Nevada | December 1998 | 36.5 \% | 0.9 \% | 0.4 \% | 1.1 \% | 0.8 \% | 60.4 \% | 44 |
| 779 | Illinois | March 2007 | 39.8 \% | 2.2 \% | 1.8 \% | 2.5 \% | 0.1 \% | 53.6 \% | 41 |
| 781 | Massachusetts | September 1997 | 49.7 \% | 0.7 \% | 0.8 \% | 2.4 \% | 0.4 \% | 46.0 \% | 41 |
| 785 | Kansas | July 1997 | 26.4 \% | 1.9 \% | 0.3 \% | 0.8 \% | 1.1 \% | 69.5 \% | 64 |
| 786 | Florida | March 1998 | 70.9 \% | 2.9 \% | 2.5 \% | 6.6 \% | 0.6 \% | 16.5 \% | 50 |
| 787 | Puerto Rico | March 1996 | 65.7 \% | 0.8 \% | 1.4 \% | 1.9 \% | 0.7 \% | 29.5 \% | 12 |
| 801 | Utah | January 1947 | 69.2 \% | 0.4 \% | 0.3 \% | 2.9 \% | 3.2 \% | 24.0 \% | 31 |
| 802 | Vermont | January 1947 | 38.2 \% | 1.0 \% | 0.7 \% | 1.2 \% | 0.2 \% | 58.7 \% | 39 |
| 803 | South Carolina | January 1947 | 47.3 \% | 5.8 \% | 0.8 \% | 2.2 \% | 1.2 \% | 42.7 \% | 63 |
| 804 | Virginia | June 1973 | 59.4 \% | 0.6 \% | 1.3 \% | 2.4 \% | 0.7 \% | 35.8 \% | 38 |
| 805 | California | January 1957 | 53.7 \% | 1.1 \% | 1.5 \% | 1.7 \% | 0.6 \% | 41.5 \% | 60 |
| 806 | Texas | January 1957 | 27.4 \% | 1.7 \% | 2.7 \% | 1.1 \% | 0.7 \% | 66.5 \% | 46 |
| 808 | Hawaii | January 1957 | 69.9 \% | 0.3 \% | 0.8 \% | 2.1 \% | 0.4 \% | 26.6 \% | 17 |
| 810 | Michigan | December 1993 | 43.0 \% | 0.7 \% | 0.6 \% | 1.6 \% | $0.5 \%$ | 53.6 \% | 44 |
| 812 | Indiana | January 1947 | 40.2 \% | $1.0 \%$ | 0.6 \% | $1.3 \%$ | $0.5 \%$ | 56.4 \% | 62 |
| 813 | Florida | January 1953 | 56.5 \% | 0.6 \% | 1.2 \% | 3.3 \% | 0.4 \% | 38.0 \% | 49 |
| 814 | Pennsylvania | January 1947 | 38.5 \% | 0.7 \% | 0.5 \% | 1.9 \% | 0.6 \% | 57.9 \% | 56 |
| 815 | Illinois | January 1947 | 41.5 \% | 0.8 \% | 0.7 \% | 1.2 \% | 0.6 \% | 55.2 \% | 69 |
| 816 | Missouri | January 1947 | 51.9 \% | 2.1 \% | 0.5 \% | 1.8 \% | 0.6 \% | 43.2 \% | 54 |
| 817 | Texas | January 1953 | 56.3 \% | $1.5 \%$ | $0.6 \%$ | $1.2 \%$ | 0.8 \% | 39.6 \% | 56 |
| 818 | California | January 1984 | 58.9 \% | 1.0 \% | 0.4 \% | 2.3 \% | 0.6 \% | 36.8 \% | 48 |
| 828 | North Carolina | March 1998 | 43.4 \% | 4.7 \% | 0.8 \% | $1.9 \%$ | 1.2 \% | 48.0 \% | 49 |
| 830 | Texas | July 1997 | 33.1 \% | 1.1 \% | 0.2 \% | 1.0 \% | 0.3 \% | 64.3 \% | 52 |
| 831 | California | July 1998 | 48.0 \% | 1.8 \% | 0.4 \% | $1.7 \%$ | 1.0 \% | 47.1 \% | 43 |
| 832 | Texas | January 1999 | 73.9 \% | 0.8 \% | 0.7 \% | 3.2 \% | 0.7 \% | 20.7 \% | 49 |
| 838 | New York | September 2017 | 13.0 \% | 0.0 \% | 0.0 \% | 0.0 \% | 0.1 \% | 87.0 \% | 3 |
| 843 | South Carolina | March 1998 | 45.5 \% | 4.1 \% | 1.0 \% | 2.3 \% | 1.0 \% | 46.1 \% | 57 |
| 845 | New York | June 2000 | 47.9 \% | 0.9 \% | 0.6 \% | 2.8 \% | 0.6 \% | 47.1 \% | 59 |
| 847 | Illinois | January 1996 | 57.2 \% | 0.6 \% | 0.4 \% | $1.4 \%$ | 0.5 \% | 39.8 \% | 40 |
| 848 | New Jersey | December 2001 | 55.0 \% | 2.1 \% | 0.9 \% | 2.9 \% | 0.4 \% | 38.7 \% | 30 |

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Number Utilization by Area Code as of December 31, 2017

| Area Code | State / Jurisdiction | Area Code Opened | Assigned | Intermediate | Reserved | Aging | Administrative | Available | OCNs |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 850 | Florida | June 1997 | 47.0 \% | 2.9 \% | 0.6 \% | 2.2 \% | 0.9 \% | 46.4 \% | 45 |
| 854 | South Carolina | October 2015 | 40.3 \% | 1.8 \% | 0.2 \% | 3.4 \% | 0.0 \% | 54.3 \% | 15 |
| 856 | New Jersey | June 1999 | 49.2 \% | 1.4 \% | 0.8 \% | 2.6 \% | 0.5 \% | 45.5 \% | 48 |
| 857 | Massachusetts | May 2001 | 64.9 \% | 1.2 \% | 1.6 \% | 3.3 \% | 0.5 \% | 28.5 \% | 43 |
| 858 | California | June 1999 | 60.0 \% | 1.7 \% | 0.4 \% | 2.6 \% | 1.0 \% | 34.4 \% | 42 |
| 859 | Kentucky | April 2000 | 44.3 \% | 1.9 \% | 0.4 \% | 1.9 \% | 0.4 \% | 51.1 \% | 47 |
| 860 | Connecticut | August 1995 | 51.9 \% | 0.8 \% | 0.7 \% | 1.8 \% | 0.3 \% | 44.5 \% | 34 |
| 862 | New Jersey | December 2001 | 62.5 \% | 1.9 \% | 1.0 \% | 3.5 \% | 0.6 \% | 30.5 \% | 44 |
| 863 | Florida | September 1999 | 45.7 \% | 0.5 \% | 0.8 \% | 2.6 \% | 0.5 \% | 49.9 \% | 46 |
| 864 | South Carolina | December 1995 | 47.3 \% | 6.2 \% | 0.6 \% | 3.6 \% | 0.9 \% | 41.5 \% | 49 |
| 865 | Tennessee | November 1999 | 52.9 \% | 7.4 \% | 0.6 \% | 2.6 \% | 1.2 \% | 35.3 \% | 41 |
| 870 | Arkansas | April 1997 | 26.5 \% | 1.7 \% | 0.4 \% | 1.1 \% | 0.4 \% | 70.0 \% | 50 |
| 872 | Illinois | November 2009 | 38.6 \% | 3.1 \% | 1.1 \% | 3.8 \% | 0.5 \% | 53.0 \% | 29 |
| 878 | Pennsylvania | August 2001 | 24.5 \% | 0.9 \% | 0.3 \% | $1.3 \%$ | 0.0 \% | 72.9 \% | 26 |
| 901 | Tennessee | January 1947 | 57.5 \% | 7.2 \% | 0.5 \% | 2.9 \% | 1.3 \% | 30.7 \% | 43 |
| 903 | Texas | November 1990 | 39.1 \% | 2.3 \% | 1.3 \% | 1.2 \% | 0.9 \% | 55.3 \% | 65 |
| 904 | Florida | July 1965 | 56.0 \% | 9.0 \% | 0.5 \% | 3.6 \% | 0.9 \% | 30.0 \% | 44 |
| 906 | Michigan | March 1961 | 17.2 \% | 0.5 \% | 0.2 \% | 0.5 \% | 0.2 \% | 81.5 \% | 29 |
| 907 | Alaska | January 1957 | 27.7 \% | 2.7 \% | 0.3 \% | 1.0 \% | 1.4 \% | 66.8 \% | 41 |
| 908 | New Jersey | November 1990 | 51.1 \% | 0.7 \% | 0.5 \% | 1.8 \% | 0.6 \% | 45.3 \% | 49 |
| 909 | California | November 1992 | 60.0 \% | 1.0 \% | 0.9 \% | 2.6 \% | 0.6 \% | 34.8 \% | 52 |
| 910 | North Carolina | November 1993 | 47.2 \% | 2.5 \% | 1.7 \% | 2.1 \% | 0.7 \% | 45.9 \% | 52 |
| 912 | Georgia | January 1954 | 37.4 \% | 3.0 \% | 0.6 \% | 1.8 \% | 1.2 \% | 56.0 \% | 57 |
| 913 | Kansas | January 1947 | 58.9 \% | 1.4 \% | 0.5 \% | 2.1 \% | 0.9 \% | 36.1 \% | 49 |
| 914 | New York | January 1947 | 56.2 \% | 0.6 \% | 0.7 \% | 2.6 \% | 0.7 \% | 39.1 \% | 51 |
| 915 | Texas | January 1947 | 62.4 \% | 1.5 \% | 0.6 \% | 2.5 \% | 1.1 \% | 31.9 \% | 34 |
| 916 | California | January 1947 | 63.3 \% | 0.8 \% | 0.5 \% | 2.3 \% | 0.8 \% | 32.4 \% | 51 |
| 917 | New York | January 1992 | 65.8 \% | 0.7 \% | 0.6 \% | 2.2 \% | 0.4 \% | 30.2 \% | 41 |
| 918 | Oklahoma | January 1953 | 41.6 \% | 2.5 \% | 0.4 \% | 2.0 \% | 0.5 \% | 53.0 \% | 69 |
| 919 | North Carolina | January 1954 | 59.1 \% | 6.1 \% | 1.2 \% | 3.5 \% | 0.9 \% | 29.3 \% | 48 |
| 920 | Wisconsin | July 1997 | 42.1 \% | 1.1 \% | 0.5 \% | 1.1 \% | 0.4 \% | 54.8 \% | 62 |
| 925 | California | March 1998 | 52.3 \% | 1.6 \% | 0.4 \% | $1.7 \%$ | 1.2 \% | 42.8 \% | 44 |
| 928 | Arizona | June 2001 | 47.6 \% | 1.1 \% | 0.3 \% | 1.7 \% | 2.8 \% | 46.5 \% | 50 |
| 929 | New York | April 2011 | 59.6 \% | 3.2 \% | 2.5 \% | $5.6 \%$ | 0.1 \% | 29.0 \% | 35 |
| 930 | Indiana | March 2015 | 25.4 \% | 0.0 \% | 0.0 \% | 0.1 \% | 0.0 \% | 74.5 \% | 3 |
| 931 | Tennessee | September 1997 | 37.2 \% | 3.6 \% | 0.5 \% | 1.4 \% | 0.5 \% | 56.8 \% | 52 |
| 934 | New York | July 2016 | 26.0 \% | 0.0 \% | 1.7 \% | 2.3 \% | 0.0 \% | 70.0 \% | 10 |
| 936 | Texas | February 2000 | 40.1 \% | 1.8 \% | 2.2 \% | 1.3 \% | 0.5 \% | 54.1 \% | 48 |
| 937 | Ohio | September 1996 | 47.2 \% | 1.1 \% | 0.5 \% | 1.6 \% | 0.4 \% | 49.3 \% | 50 |
| 938 | Alabama | July 2010 | 11.6 \% | $0.1 \%$ | 0.1 \% | 0.1 \% | 0.0 \% | 88.1 \% | 6 |
| 939 | Puerto Rico | September 2001 | 49.5 \% | 0.8 \% | 0.7 \% | 3.5 \% | 2.0 \% | 43.5 \% | 9 |
| 940 | Texas | May 1997 | 30.5 \% | 1.1 \% | 0.4 \% | 0.9 \% | 0.9 \% | 66.2 \% | 61 |
| 941 | Florida | May 1995 | 53.8 \% | 0.6 \% | 1.2 \% | 2.6 \% | 0.4 \% | 41.4 \% | 45 |
| 947 | Michigan | September 2002 | 81.6 \% | 0.2 \% | 1.9 \% | 1.4 \% | 0.1 \% | 14.9 \% | 17 |
| 949 | California | April 1998 | 64.9 \% | 1.6 \% | 0.6 \% | 2.7 \% | 0.9 \% | 29.4 \% | 50 |
| 951 | California | July 2004 | 64.7 \% | 0.9 \% | 0.9 \% | 2.8 \% | 0.6 \% | 30.0 \% | 46 |
| 952 | Minnesota | February 2000 | 61.0 \% | 0.3 \% | 0.4 \% | 1.2 \% | 1.9 \% | 35.1 \% | 48 |
| 954 | Florida | September 1995 | 55.4 \% | $9.5 \%$ | 1.9 \% | 3.9 \% | $1.5 \%$ | 27.9 \% | 45 |
| 956 | Texas | July 1997 | 52.1 \% | 2.1 \% | 0.4 \% | 2.4 \% | 0.9 \% | 42.1 \% | 40 |
| 959 | Connecticut | August 2014 | 38.6 \% | 1.6 \% | 1.3 \% | 1.4 \% | 0.1 \% | 56.9 \% | 14 |
| 970 | Colorado | April 1995 | 46.5 \% | 0.6 \% | 0.6 \% | 1.5 \% | 2.2 \% | 48.6 \% | 66 |
| 971 | Oregon | October 2000 | $61.6 \%$ | 1.4 \% | 1.9 \% | 2.8 \% | 0.4 \% | 32.0 \% | 40 |
| 972 | Texas | September 1996 | 54.7 \% | $1.3 \%$ | 0.6 \% | $1.1 \%$ | 0.5 \% | 41.9 \% | 57 |
| 973 | New Jersey | June 1997 | 57.0 \% | 0.5 \% | 0.8 \% | 2.6 \% | 0.5 \% | 38.6 \% | 54 |
| 978 | Massachusetts | September 1997 | 51.1 \% | 1.1 \% | 1.1 \% | 2.7 \% | 0.4 \% | 43.5 \% | 43 |
| 979 | Texas | February 2000 | 35.7 \% | 1.4 \% | 0.7 \% | 0.9 \% | 0.3 \% | 61.0 \% | 53 |
| 980 | North Carolina | April 2001 | 56.9 \% | 3.3 \% | 1.2 \% | 3.0 \% | 0.3 \% | 35.2 \% | 42 |
| 984 | North Carolina | April 2012 | 43.2 \% | 2.9 \% | 1.5 \% | 2.0 \% | 0.4 \% | 50.0 \% | 30 |
| 985 | Louisiana | February 2001 | 38.5 \% | 5.8 \% | 0.4 \% | $1.7 \%$ | 0.9 \% | 52.7 \% | 40 |
| 989 | Michigan | April 2001 | 35.9 \% | 0.7 \% | 0.4 \% | 0.9 \% | 0.2 \% | 61.9 \% | 51 |

[^11]Table 7
Assigned, Aging, and Available Telephone Numbers by Area Code as of December 31, 2017 (in thousands except OCNs)

| Area Code | State / Jurisdiction | Wireline (CLECs and ILECs) |  |  |  | Mobile Wireless |  |  |  | VoIP |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Assigned | Aging | Available | OCNs | Assigned | Aging | Available | OCNs | Assigned | Aging | Available | OCNs |
| 201 | New Jersey | 2,762 | 180 | 1,820 | 40 | 2,093 | 66 | 334 | 5 | 1 | 0 | 7 | 2 |
| 202 | District Of Columbia | 3,570 | 130 | 914 | 38 | 1,743 | 75 | 341 | 6 | 1 | 0 | 2 | 3 |
| 203 | Connecticut | 2,459 | 103 | 2,524 | 28 | 2,138 | 58 | 171 | 5 | 0 | 0 | 0 | 1 |
| 205 | Alabama | 1,771 | 104 | 1,952 | 41 | 1,867 | 69 | 614 | 9 | 1 | 0 | 19 | 3 |
| 206 | Washington | 2,539 | 59 | 1,210 | 35 | 1,967 | 69 | 152 | 6 | 1 | 0 | 3 | 3 |
| 207 | Maine | 1,667 | 69 | 2,994 | 50 | 1,443 | 42 | 424 | 6 | 0 | 0 | 0 | 1 |
| 208 | Idaho | 2,077 | 66 | 2,371 | 54 | 1,841 | 57 | 558 | 11 | 0 | 0 | 2 | 2 |
| 209 | California | 1,677 | 52 | 2,065 | 36 | 1,885 | 106 | 479 | 6 | 0 | 0 | 31 | 4 |
| 210 | Texas | 2,537 | 64 | 1,254 | 30 | 2,609 | 105 | 366 | 7 | 1 | 0 | 2 | 4 |
| 212 | New York | 5,338 | 138 | 1,962 | 30 | 78 | 4 | 16 | 4 | 0 | 0 | 0 | 1 |
| 213 | California | 1,534 | 102 | 1,019 | 38 | 1,137 | 87 | 205 | 6 | 1 | 0 | 3 | 3 |
| 214 | Texas | 2,432 | 62 | 1,565 | 43 | 2,810 | 74 | 132 | 6 | 0 | 0 | 3 | 2 |
| 215 | Pennsylvania | 3,078 | 87 | 1,994 | 36 | 1,708 | 61 | 178 | 6 | 0 | 0 | 3 | 2 |
| 216 | Ohio | 1,667 | 63 | 1,222 | 30 | 1,472 | 62 | 375 | 6 | 0 | 0 | 4 | 2 |
| 217 | Illinois | 1,146 | 31 | 4,349 | 43 | 1,280 | 38 | 533 | 8 | 0 | 0 | 17 | 3 |
| 218 | Minnesota | 957 | 22 | 3,440 | 65 | 807 | 21 | 601 | 6 | 0 | 0 | 0 | 1 |
| 219 | Indiana | 824 | 21 | 1,339 | 31 | 1,036 | 34 | 339 | 5 | 0 | 0 | 0 | 1 |
| 220 | Ohio | 16 | 0 | 81 | 5 | 2 | 0 | 1 | 2 | 0 | 0 | 0 | 0 |
| 223 | Pennsylvania | 2 | 0 | 48 | 2 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| 224 | Illinois | 942 | 49 | 748 | 30 | 1,262 | 60 | 394 | 5 | 0 | 0 | 28 | 2 |
| 225 | Louisiana | 839 | 44 | 1,176 | 31 | 1,239 | 36 | 164 | 6 | 0 | 0 | 0 | 1 |
| 228 | Mississippi | 315 | 19 | 736 | 23 | 844 | 27 | 311 | 7 | 1 | 0 | 5 | 2 |
| 229 | Georgia | 541 | 17 | 3,237 | 32 | 856 | 49 | 898 | 7 | 0 | 0 | 0 | 1 |
| 231 | Michigan | 724 | 15 | 2,431 | 39 | 726 | 24 | 382 | 5 | 0 | 0 | 0 | 1 |
| 234 | Ohio | 320 | 18 | 599 | 27 | 615 | 25 | 155 | 6 | 1 | 0 | 24 | 4 |
| 239 | Florida | 1,055 | 83 | 779 | 22 | 1,146 | 43 | 206 | 6 | 0 | 0 | 17 | 3 |
| 240 | Maryland | 1,374 | 118 | 1,665 | 43 | 1,851 | 79 | 509 | 8 | 0 | 0 | 68 | 4 |
| 248 | Michigan | 2,411 | 74 | 2,245 | 40 | 2,070 | 61 | 359 | 5 | 1 | 0 | 3 | 2 |
| 251 | Alabama | 673 | 33 | 1,305 | 33 | 867 | 37 | 352 | 8 | 0 | 0 | 0 | 1 |
| 252 | North Carolina | 1,287 | 43 | 2,216 | 25 | 1,179 | 55 | 476 | 8 | 0 | 0 | 0 | 1 |
| 253 | Washington | 1,569 | 38 | 1,040 | 29 | 1,254 | 46 | 164 | 5 | 2 | 0 | 1 | 2 |
| 254 | Texas | 855 | 30 | 2,316 | 37 | 971 | 32 | 418 | 9 | 0 | 0 | 2 | 2 |
| 256 | Alabama | 1,419 | 50 | 2,165 | 37 | 1,680 | 60 | 927 | 7 | 0 | 0 | 15 | 2 |
| 260 | Indiana | 782 | 16 | 1,420 | 25 | 780 | 26 | 387 | 7 | 0 | 0 | 0 | 1 |
| 262 | Wisconsin | 1,501 | 35 | 1,842 | 30 | 1,182 | 32 | 241 | 6 | 3 | 0 | 31 | 2 |
| 267 | Pennsylvania | 1,424 | 151 | 2,068 | 40 | 2,401 | 127 | 513 | 6 | 1 | 0 | 30 | 4 |
| 269 | Michigan | 845 | 23 | 1,800 | 40 | 902 | 34 | 397 | 6 | 0 | 0 | 0 | 1 |
| 270 | Kentucky | 883 | 42 | 5,980 | 42 | 1,227 | 46 | 690 | 12 | 0 | 0 | 2 | 2 |
| 272 | Pennsylvania | 30 | 1 | 197 | 16 | 21 | 3 | 80 | 6 | 0 | 0 | 17 | 3 |
| 276 | Virginia | 454 | 14 | 1,279 | 31 | 465 | 21 | 235 | 10 | 1 | 0 | 6 | 2 |
| 281 | Texas | 2,808 | 82 | 2,424 | 41 | 1,726 | 50 | 161 | 6 | 0 | 0 | 4 | 2 |
| 301 | Maryland | 3,126 | 111 | 2,318 | 37 | 1,517 | 33 | 228 | 8 | 0 | 0 | 10 | 1 |
| 302 | Delaware | 1,806 | 68 | 1,637 | 26 | 1,124 | 47 | 190 | 5 | 0 | 0 | 27 | 2 |
| 303 | Colorado | 3,366 | 102 | 1,852 | 27 | 1,522 | 29 | 14 | 6 | 1 | 0 | 1 | 2 |
| 304 | West Virginia | 1,603 | 19 | 3,562 | 34 | 1,744 | 65 | 382 | 11 | 0 | 0 | 1 | 2 |
| 305 | Florida | 2,042 | 150 | 1,543 | 34 | 1,670 | 67 | 79 | 5 | 0 | 0 | 1 | 2 |
| 307 | Wyoming | 712 | 21 | 1,237 | 29 | 659 | 23 | 923 | 8 | 2 | 0 | 10 | 2 |
| 308 | Nebraska | 269 | 8 | 2,005 | 44 | 1,159 | 52 | 562 | 7 | 0 | 0 | 0 | 1 |
| 309 | Illinois | 982 | 19 | 3,544 | 48 | 1,394 | 35 | 366 | 9 | 0 | 0 | 4 | 2 |
| 310 | California | 2,742 | 86 | 1,974 | 36 | 2,146 | 71 | 130 | 5 | 0 | 0 | 0 | 1 |
| 312 | Illinois | 3,182 | 93 | 1,332 | 32 | 1,656 | 78 | 514 | 6 | 2 | 0 | 8 | 3 |
| 313 | Michigan | 1,661 | 57 | 1,559 | 36 | 1,931 | 100 | 689 | 5 | 0 | 0 | 0 | 1 |
| 314 | Missouri | 2,263 | 118 | 1,346 | 24 | 2,081 | 69 | 457 | 6 | 0 | 0 | 26 | 4 |
| 315 | New York | 1,736 | 107 | 3,027 | 44 | 1,621 | 52 | 276 | 6 | 0 | 0 | 10 | 3 |
| 316 | Kansas | 723 | 24 | 706 | 19 | 1,851 | 82 | 338 | 8 | 0 | 0 | 17 | 3 |
| 317 | Indiana | 2,412 | 68 | 2,078 | 35 | 2,183 | 77 | 314 | 6 | 1 | 0 | 0 | 1 |
| 318 | Louisiana | 1,052 | 41 | 2,561 | 31 | 1,505 | 58 | 661 | 7 | 0 | 0 | 0 | 1 |
| 319 | Iowa | 925 | 30 | 2,229 | 68 | 842 | 41 | 297 | 6 | 0 | 0 | 1 | 2 |
| 320 | Minnesota | 819 | 62 | 2,391 | 62 | 575 | 12 | 296 | 10 | 2 | 0 | 4 | 2 |
| 321 | Florida | 1,013 | 135 | 730 | 33 | 1,229 | 63 | 224 | 6 | 1 | 0 | 14 | 3 |
| 323 | California | 2,193 | 114 | 1,932 | 36 | 2,396 | 162 | 473 | 5 | 0 | 0 | 9 | 2 |
| 325 | Texas | 419 | 12 | 1,545 | 28 | 513 | 15 | 242 | 9 | 0 | 0 | 0 | 1 |
| 330 | Ohio | 1,907 | 64 | 2,431 | 33 | 2,256 | 66 | 382 | 5 | 0 | 0 | 2 | 2 |
| 331 | Illinois | 260 | 12 | 269 | 30 | 338 | 19 | 194 | 5 | 0 | 0 | 11 | 2 |
| 332 | New York | 52 | 1 | 12 | 5 | 13 | 3 | 29 | 3 | 1 | 0 | 0 | 1 |

Table 7
Assigned, Aging, and Available Telephone Numbers by Area Code as of December 31, 2017 (in thousands except OCNs)

| Area Code | State / Jurisdiction | Wireline (CLECs and ILECs) |  |  |  | Mobile Wireless |  |  |  | VoIP |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Assigned | Aging | Available | OCNs | Assigned | Aging | Available | OCNs | Assigned | Aging | Available | OCNs |
| 334 | Alabama | 1,082 | 38 | 2,349 | 47 | 1,224 | 53 | 1,091 | 8 | 0 | 0 | 0 | 1 |
| 336 | North Carolina | 1,793 | 99 | 2,563 | 48 | 2,019 | 74 | 501 | 7 | 0 | 0 | 13 | 3 |
| 337 | Louisiana | 829 | 44 | 1,845 | 29 | 1,193 | 45 | 738 | 7 | 0 | 0 | 0 | 1 |
| 339 | Massachusetts | 216 | 9 | 179 | 20 | 192 | 6 | 44 | 5 | 0 | 0 | 8 | 2 |
| 340 | Virgin Islands | 38 | 5 | 124 | 2 | 134 | 9 | 108 | 5 | 0 | 0 | 0 | 0 |
| 346 | Texas | 487 | 23 | 439 | 27 | 779 | 72 | 245 | 5 | 1 | 0 | 22 | 3 |
| 347 | New York | 2,151 | 88 | 420 | 32 | 3,982 | 192 | 588 | 7 | 0 | 0 | 1 | 1 |
| 351 | Massachusetts | 26 | 1 | 54 | 12 | 10 | 1 | 15 | 4 | 0 | 0 | 3 | 1 |
| 352 | Florida | 1,323 | 58 | 1,516 | 26 | 1,483 | 62 | 412 | 8 | 0 | 0 | 4 | 2 |
| 360 | Washington | 2,253 | 47 | 2,484 | 50 | 2,017 | 60 | 371 | 6 | 0 | 0 | 1 | 2 |
| 361 | Texas | 722 | 24 | 1,585 | 32 | 940 | 36 | 574 | 9 | 0 | 0 | 0 | 1 |
| 364 | Kentucky | 0 | 0 | 35 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 380 | Ohio | 15 | 0 | 66 | 8 | 24 | 3 | 18 | 2 | 0 | 0 | 4 | 2 |
| 385 | Utah | 526 | 16 | 282 | 21 | 763 | 37 | 126 | 6 | 0 | 0 | 23 | 4 |
| 386 | Florida | 675 | 40 | 912 | 29 | 846 | 35 | 289 | 7 | 1 | 0 | 4 | 2 |
| 401 | Rhode Island | 1,445 | 63 | 1,709 | 22 | 1,240 | 42 | 276 | 5 | 0 | 0 | 35 | 3 |
| 402 | Nebraska | 2,081 | 60 | 3,162 | 53 | 1,712 | 42 | 393 | 8 | 0 | 0 | 5 | 2 |
| 404 | Georgia | 2,027 | 88 | 932 | 32 | 2,868 | 147 | 187 | 7 | 1 | 0 | 0 | 2 |
| 405 | Oklahoma | 1,724 | 50 | 2,350 | 34 | 1,894 | 86 | 560 | 9 | 0 | 0 | 41 | 4 |
| 406 | Montana | 1,123 | 32 | 3,517 | 44 | 1,097 | 31 | 1,044 | 11 | 0 | 0 | 10 | 2 |
| 407 | Florida | 2,156 | 179 | 1,598 | 35 | 2,263 | 97 | 233 | 7 | 0 | 0 | 11 | 3 |
| 408 | California | 2,947 | 81 | 2,003 | 43 | 1,932 | 46 | 171 | 5 | 0 | 0 | 1 | 2 |
| 409 | Texas | 661 | 22 | 1,255 | 32 | 771 | 32 | 241 | 8 | 0 | 0 | 3 | 2 |
| 410 | Maryland | 3,138 | 74 | 2,518 | 36 | 1,335 | 36 | 167 | 6 | 0 | 0 | 29 | 2 |
| 412 | Pennsylvania | 2,045 | 114 | 1,988 | 33 | 1,773 | 50 | 435 | 6 | 1 | 0 | 23 | 3 |
| 413 | Massachusetts | 1,234 | 50 | 1,597 | 28 | 982 | 35 | 198 | 5 | 0 | 0 | 0 | 1 |
| 414 | Wisconsin | 1,555 | 39 | 927 | 23 | 1,316 | 55 | 243 | 7 | 0 | 0 | 13 | 3 |
| 415 | California | 2,906 | 90 | 2,123 | 42 | 1,894 | 73 | 62 | 6 | 0 | 0 | 0 | 1 |
| 417 | Missouri | 843 | 31 | 2,796 | 43 | 1,311 | 40 | 478 | 8 | 0 | 0 | 0 | 1 |
| 419 | Ohio | 1,398 | 33 | 3,305 | 55 | 1,618 | 52 | 495 | 6 | 0 | 0 | 1 | 2 |
| 423 | Tennessee | 1,319 | 57 | 2,007 | 42 | 1,698 | 74 | 594 | 10 | 0 | 0 | 6 | 2 |
| 424 | California | 1,087 | 71 | 611 | 40 | 642 | 71 | 173 | 5 | 1 | 0 | 12 | 2 |
| 425 | Washington | 2,236 | 43 | 1,342 | 29 | 1,392 | 49 | 133 | 6 | 2 | 0 | 1 | 2 |
| 430 | Texas | 68 | 8 | 412 | 22 | 33 | 2 | 64 | 7 | 0 | 0 | 3 | 1 |
| 432 | Texas | 415 | 17 | 1,244 | 22 | 615 | 19 | 197 | 6 | 1 | 0 | 0 | 1 |
| 434 | Virginia | 785 | 21 | 1,291 | 25 | 808 | 29 | 283 | 7 | 1 | 0 | 33 | 3 |
| 435 | Utah | 711 | 39 | 1,586 | 37 | 901 | 25 | 592 | 11 | 12 | 0 | 9 | 2 |
| 440 | Ohio | 1,611 | 69 | 2,027 | 38 | 2,196 | 56 | 370 | 5 | 0 | 0 | 25 | 3 |
| 442 | California | 197 | 13 | 387 | 32 | 216 | 30 | 152 | 7 | 0 | 0 | 23 | 1 |
| 443 | Maryland | 1,489 | 197 | 2,127 | 35 | 2,608 | 104 | 742 | 7 | 0 | 0 | 50 | 2 |
| 458 | Oregon | 61 | 3 | 198 | 14 | 39 | 4 | 94 | 5 | 1 | 0 | 0 | 1 |
| 463 | Indiana | 17 | 0 | 74 | 9 | 12 | 1 | 51 | 4 | 0 | 0 | 0 | 0 |
| 469 | Texas | 2,079 | 76 | 1,276 | 50 | 2,079 | 95 | 191 | 7 | 0 | 0 | 26 | 3 |
| 470 | Georgia | 921 | 43 | 891 | 35 | 1,516 | 85 | 437 | 6 | 3 | 0 | 16 | 4 |
| 475 | Connecticut | 196 | 6 | 266 | 20 | 399 | 18 | 150 | 5 | 0 | 0 | 22 | 2 |
| 478 | Georgia | 593 | 35 | 1,362 | 33 | 777 | 35 | 433 | 8 | 0 | 0 | 0 | 1 |
| 479 | Arkansas | 799 | 16 | 1,360 | 27 | 999 | 35 | 422 | 6 | 0 | 0 | 0 | 1 |
| 480 | Arizona | 2,591 | 93 | 962 | 26 | 2,269 | 81 | 72 | 6 | 0 | 0 | 3 | 3 |
| 484 | Pennsylvania | 1,718 | 113 | 2,556 | 40 | 1,574 | 62 | 348 | 8 | 1 | 0 | 59 | 2 |
| 501 | Arkansas | 1,337 | 23 | 1,440 | 27 | 1,270 | 48 | 598 | 6 | 0 | 0 | 10 | 2 |
| 502 | Kentucky | 1,402 | 98 | 1,693 | 27 | 1,521 | 56 | 464 | 7 | 0 | 0 | 33 | 4 |
| 503 | Oregon | 2,843 | 100 | 2,158 | 47 | 2,031 | 49 | 84 | 5 | 0 | 0 | 0 | 1 |
| 504 | Louisiana | 1,135 | 69 | 1,146 | 27 | 1,448 | 143 | 385 | 7 | 0 | 0 | 15 | 4 |
| 505 | New Mexico | 1,642 | 51 | 1,171 | 29 | 1,618 | 67 | 340 | 9 | 0 | 0 | 18 | 3 |
| 507 | Minnesota | 1,080 | 20 | 3,897 | 78 | 897 | 19 | 424 | 5 | 1 | 0 | 0 | 2 |
| 508 | Massachusetts | 2,842 | 172 | 2,288 | 32 | 1,560 | 37 | 243 | 5 | 0 | 0 | 10 | 2 |
| 509 | Washington | 1,886 | 51 | 2,249 | 41 | 1,693 | 53 | 537 | 9 | 0 | 0 | 11 | 3 |
| 510 | California | 2,192 | 70 | 2,121 | 37 | 2,095 | 80 | 307 | 5 | 0 | 0 | 11 | 2 |
| 512 | Texas | 3,027 | 66 | 1,719 | 38 | 2,261 | 75 | 118 | 8 | 0 | 0 | 6 | 2 |
| 513 | Ohio | 2,311 | 72 | 1,619 | 25 | 2,201 | 68 | 406 | 6 | 0 | 0 | 7 | 2 |
| 515 | Iowa | 1,267 | 45 | 1,537 | 49 | 1,095 | 35 | 256 | 8 | 0 | 0 | 0 | 1 |
| 516 | New York | 2,078 | 110 | 1,482 | 36 | 2,021 | 60 | 479 | 5 | 0 | 0 | 10 | 2 |
| 517 | Michigan | 1,115 | 17 | 2,457 | 51 | 1,143 | 38 | 324 | 5 | 0 | 0 | 0 | 1 |
| 518 | New York | 1,970 | 123 | 2,678 | 49 | 1,601 | 61 | 330 | 6 | 0 | 0 | 59 | 4 |
| 520 | Arizona | 1,691 | 51 | 1,166 | 33 | 1,528 | 65 | 364 | 7 | 0 | 0 | 16 | 4 |

Table 7
Assigned, Aging, and Available Telephone Numbers by Area Code as of December 31, 2017 (in thousands except OCNs)

| Area Code | State / Jurisdiction | Wireline (CLECs and ILECs) |  |  |  | Mobile Wireless |  |  |  | VoIP |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Assigned | Aging | Available | OCNs | Assigned | Aging | Available | OCNs | Assigned | Aging | Available | OCNs |
| 530 | California | 1,391 | 40 | 3,145 | 50 | 1,366 | 54 | 384 | 6 | 0 | 0 | 29 | 3 |
| 531 | Nebraska | 102 | 5 | 137 | 16 | 75 | 8 | 89 | 7 | 1 | 0 | 2 | 1 |
| 534 | Wisconsin | 5 | 0 | 33 | 7 | 0 | 0 | 10 | 1 | 0 | 0 | 0 | 0 |
| 539 | Oklahoma | 69 | 1 | 330 | 17 | 17 | 4 | 47 | 5 | 0 | 0 | 28 | 3 |
| 540 | Virginia | 1,564 | 42 | 2,198 | 46 | 1,816 | 60 | 556 | 8 | 2 | 0 | 60 | 3 |
| 541 | Oregon | 1,834 | 68 | 3,228 | 47 | 1,758 | 59 | 460 | 8 | 27 | 0 | 4 | 1 |
| 551 | New Jersey | 164 | 13 | 155 | 23 | 438 | 28 | 146 | 5 | 0 | 0 | 14 | 1 |
| 559 | California | 1,357 | 51 | 2,215 | 34 | 1,927 | 123 | 436 | 6 | 0 | 0 | 32 | 4 |
| 561 | Florida | 1,660 | 179 | 1,185 | 41 | 1,727 | 69 | 163 | 5 | 1 | 0 | 7 | 3 |
| 562 | California | 1,523 | 59 | 1,550 | 38 | 1,788 | 79 | 308 | 5 | 0 | 0 | 8 | 2 |
| 563 | Iowa | 488 | 30 | 1,671 | 54 | 936 | 36 | 236 | 6 | 0 | 0 | 0 | 1 |
| 564 | Washington | 7 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 567 | Ohio | 310 | 12 | 1,186 | 30 | 326 | 15 | 266 | 8 | 1 | 0 | 25 | 4 |
| 570 | Pennsylvania | 1,478 | 45 | 3,101 | 44 | 1,736 | 54 | 549 | 14 | 0 | 0 | 0 | 1 |
| 571 | Virginia | 1,129 | 60 | 411 | 39 | 1,433 | 58 | 295 | 6 | 0 | 0 | 5 | 3 |
| 573 | Missouri | 938 | 29 | 3,437 | 40 | 1,203 | 36 | 538 | 8 | 0 | 0 | 17 | 2 |
| 574 | Indiana | 691 | 36 | 1,307 | 33 | 802 | 27 | 413 | 7 | 0 | 0 | 0 | 1 |
| 575 | New Mexico | 630 | 23 | 1,919 | 41 | 686 | 32 | 415 | 9 | 18 | 0 | 15 | 2 |
| 580 | Oklahoma | 569 | 16 | 3,408 | 37 | 861 | 54 | 1,209 | 13 | 0 | 0 | 15 | 2 |
| 585 | New York | 1,605 | 88 | 1,765 | 31 | 1,313 | 42 | 204 | 7 | 0 | 0 | 42 | 3 |
| 586 | Michigan | 903 | 29 | 1,071 | 34 | 2,321 | 37 | 238 | 5 | 0 | 0 | 0 | 1 |
| 601 | Mississippi | 1,180 | 49 | 2,695 | 36 | 1,533 | 62 | 660 | 8 | 1 | 0 | 15 | 2 |
| 602 | Arizona | 2,378 | 63 | 1,091 | 23 | 2,009 | 74 | 382 | 5 | 1 | 0 | 0 | 2 |
| 603 | New Hampshire | 1,875 | 143 | 2,715 | 41 | 1,567 | 35 | 476 | 6 | 0 | 0 | 9 | 2 |
| 605 | South Dakota | 948 | 27 | 3,538 | 69 | 1,060 | 31 | 796 | 6 | 0 | 0 | 9 | 2 |
| 606 | Kentucky | 675 | 30 | 3,471 | 37 | 893 | 44 | 1,004 | 9 | 0 | 0 | 0 | 1 |
| 607 | New York | 850 | 42 | 2,072 | 36 | 801 | 25 | 209 | 7 | 0 | 0 | 15 | 3 |
| 608 | Wisconsin | 1,444 | 34 | 2,437 | 65 | 1,342 | 36 | 555 | 8 | 1 | 0 | 3 | 2 |
| 609 | New Jersey | 1,860 | 98 | 2,133 | 37 | 1,907 | 68 | 537 | 5 | 0 | 0 | 51 | 4 |
| 610 | Pennsylvania | 2,854 | 69 | 2,614 | 42 | 1,468 | 25 | 209 | 8 | 0 | 0 | 2 | 2 |
| 612 | Minnesota | 1,604 | 47 | 711 | 35 | 2,005 | 62 | 114 | 6 | 1 | 0 | 2 | 3 |
| 614 | Ohio | 2,646 | 120 | 1,537 | 30 | 2,499 | 88 | 294 | 7 | 0 | 0 | 15 | 3 |
| 615 | Tennessee | 2,059 | 183 | 1,805 | 36 | 2,097 | 68 | 308 | 7 | 0 | 0 | 14 | 2 |
| 616 | Michigan | 1,235 | 23 | 1,409 | 37 | 1,208 | 38 | 194 | 5 | 0 | 0 | 3 | 2 |
| 617 | Massachusetts | 3,393 | 178 | 1,912 | 30 | 1,675 | 39 | 282 | 4 | 0 | 0 | 9 | 2 |
| 618 | Illinois | 922 | 26 | 3,869 | 45 | 1,305 | 46 | 629 | 10 | 0 | 0 | 9 | 2 |
| 619 | California | 1,905 | 77 | 1,581 | 34 | 2,394 | 118 | 466 | 6 | 1 | 0 | 15 | 4 |
| 620 | Kansas | 539 | 19 | 3,490 | 57 | 567 | 22 | 860 | 11 | 0 | 0 | 13 | 2 |
| 623 | Arizona | 949 | 47 | 284 | 22 | 766 | 28 | 125 | 5 | 0 | 0 | 0 | 1 |
| 626 | California | 1,546 | 84 | 1,538 | 36 | 2,093 | 109 | 182 | 5 | 0 | 0 | 9 | 2 |
| 628 | California | 166 | 7 | 262 | 23 | 130 | 12 | 107 | 5 | 1 | 0 | 18 | 4 |
| 629 | Tennessee | 110 | 2 | 94 | 17 | 56 | 4 | 70 | 4 | 0 | 0 | 12 | 4 |
| 630 | Illinois | 2,487 | 89 | 1,916 | 33 | 1,759 | 42 | 1,059 | 5 | 1 | 0 | 6 | 2 |
| 631 | New York | 2,265 | 123 | 2,632 | 33 | 1,693 | 59 | 243 | 5 | 0 | 0 | 26 | 2 |
| 636 | Missouri | 989 | 65 | 1,518 | 27 | 639 | 17 | 239 | 5 | 0 | 0 | 13 | 2 |
| 641 | Iowa | 391 | 18 | 2,896 | 58 | 479 | 19 | 491 | 9 | 0 | 0 | 0 | 1 |
| 646 | New York | 3,000 | 266 | 506 | 40 | 2,916 | 123 | 444 | 6 | 1 | 0 | 3 | 5 |
| 650 | California | 2,265 | 67 | 2,171 | 36 | 1,292 | 40 | 162 | 5 | 0 | 0 | 15 | 2 |
| 651 | Minnesota | 1,798 | 45 | 979 | 42 | 1,058 | 26 | 105 | 5 | 0 | 0 | 5 | 2 |
| 657 | California | 408 | 26 | 375 | 29 | 679 | 59 | 181 | 5 | 0 | 0 | 6 | 1 |
| 660 | Missouri | 304 | 10 | 3,031 | 43 | 613 | 14 | 404 | 9 | 1 | 0 | 6 | 2 |
| 661 | California | 1,294 | 56 | 1,699 | 42 | 1,606 | 91 | 299 | 7 | 0 | 0 | 17 | 3 |
| 662 | Mississippi | 873 | 35 | 2,681 | 45 | 1,106 | 51 | 1,108 | 6 | 0 | 0 | 24 | 2 |
| 667 | Maryland | 205 | 5 | 189 | 20 | 99 | 7 | 134 | 8 | 0 | 0 | 50 | 3 |
| 669 | California | 293 | 12 | 256 | 27 | 259 | 26 | 99 | 5 | 0 | 0 | 8 | 1 |
| 670 | Northern Marianas Islands | 13 | 0 | 123 | 1 | 77 | 3 | 37 | 2 | 0 | 0 | 0 | 0 |
| 671 | Guam | 104 | 10 | 355 | 4 | 216 | 14 | 95 | 3 | 0 | 0 | 0 | 0 |
| 678 | Georgia | 2,518 | 301 | 1,354 | 41 | 2,650 | 89 | 205 | 6 | 1 | 0 | 1 | 3 |
| 680 | New York | 8 | 0 | 29 | 2 | 0 | 0 | 6 | 1 | 1 | 0 | 1 | 1 |
| 681 | West Virginia | 83 | 6 | 563 | 21 | 111 | 8 | 242 | 9 | 0 | 0 | 0 | 0 |
| 682 | Texas | 565 | 19 | 401 | 36 | 918 | 48 | 131 | 6 | 0 | 0 | 9 | 2 |
| 684 | American Samoa | 7 | 0 | 73 | 1 | 65 | 0 | 20 | 3 | 0 | 0 | 0 | 0 |
| 701 | North Dakota | 859 | 26 | 3,601 | 58 | 866 | 23 | 1,023 | 8 | 1 | 0 | 3 | 2 |
| 702 | Nevada | 2,842 | 133 | 1,425 | 34 | 2,502 | 116 | 273 | 6 | 3 | 0 | 7 | 3 |
| 703 | Virginia | 3,593 | 159 | 1,870 | 33 | 1,637 | 29 | 159 | 6 | 0 | 0 | 5 | 2 |

Table 7
Assigned, Aging, and Available Telephone Numbers by Area Code as of December 31, 2017 (in thousands except OCNs)

| Area Code | State / Jurisdiction | Wireline (CLECs and ILECs) |  |  |  | Mobile Wireless |  |  |  | VoIP |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Assigned | Aging | Available | OCNs | Assigned | Aging | Available | OCNs | Assigned | Aging | Available | OCNs |
| 704 | North Carolina | 2,147 | 160 | 1,974 | 37 | 2,150 | 69 | 207 | 5 | 0 | 0 | 2 | 2 |
| 706 | Georgia | 1,706 | 64 | 3,169 | 61 | 1,996 | 89 | 680 | 9 | 0 | 0 | 2 | 2 |
| 707 | California | 1,799 | 51 | 2,843 | 40 | 1,572 | 56 | 253 | 6 | 2 | 0 | 60 | 2 |
| 708 | Illinois | 1,684 | 103 | 2,094 | 30 | 1,624 | 60 | 1,158 | 5 | 2 | 0 | 16 | 2 |
| 712 | Iowa | 496 | 21 | 2,912 | 92 | 574 | 19 | 674 | 11 | 1 | 0 | 3 | 2 |
| 713 | Texas | 2,961 | 46 | 1,982 | 36 | 1,553 | 47 | 50 | 5 | 0 | 0 | 0 | 1 |
| 714 | California | 2,276 | 99 | 1,881 | 36 | 2,566 | 80 | 155 | 5 | 0 | 0 | 4 | 2 |
| 715 | Wisconsin | 1,030 | 24 | 3,283 | 77 | 1,203 | 36 | 1,486 | 10 | 3 | 0 | 2 | 2 |
| 716 | New York | 1,596 | 116 | 1,970 | 36 | 1,894 | 50 | 374 | 7 | 0 | 0 | 23 | 4 |
| 717 | Pennsylvania | 2,175 | 119 | 2,496 | 39 | 2,170 | 68 | 305 | 7 | 0 | 0 | 32 | 4 |
| 718 | New York | 3,476 | 144 | 2,747 | 31 | 995 | 35 | 54 | 6 | 0 | 0 | 0 | 1 |
| 719 | Colorado | 1,633 | 75 | 1,640 | 41 | 1,192 | 44 | 315 | 8 | 1 | 0 | 24 | 4 |
| 720 | Colorado | 2,335 | 87 | 712 | 31 | 2,541 | 93 | 293 | 8 | 1 | 0 | 9 | 4 |
| 724 | Pennsylvania | 1,456 | 56 | 3,766 | 46 | 1,539 | 42 | 272 | 6 | 0 | 0 | 48 | 2 |
| 725 | Nevada | 144 | 5 | 55 | 14 | 54 | 4 | 36 | 4 | 0 | 0 | 2 | 2 |
| 726 | Texas | 3 | 0 | 24 | 10 | 1 | 0 | 12 | 2 | 0 | 0 | 0 | 0 |
| 727 | Florida | 1,087 | 93 | 1,872 | 32 | 1,517 | 51 | 159 | 5 | 0 | 0 | 5 | 2 |
| 731 | Tennessee | 454 | 18 | 1,718 | 34 | 930 | 37 | 448 | 7 | 1 | 0 | 12 | 2 |
| 732 | New Jersey | 2,686 | 124 | 2,387 | 34 | 1,844 | 47 | 193 | 5 | 1 | 0 | 11 | 3 |
| 734 | Michigan | 1,615 | 49 | 2,064 | 43 | 1,871 | 51 | 285 | 5 | 0 | 0 | 0 | 1 |
| 737 | Texas | 207 | 8 | 209 | 21 | 169 | 16 | 119 | 5 | 0 | 0 | 10 | 4 |
| 740 | Ohio | 1,333 | 50 | 3,487 | 38 | 1,439 | 54 | 593 | 6 | 0 | 0 | 56 | 2 |
| 743 | North Carolina | 3 | 0 | 21 | 5 | 8 | 1 | 3 | 2 | 0 | 0 | 12 | 2 |
| 747 | California | 224 | 15 | 273 | 26 | 259 | 34 | 106 | 5 | 0 | 0 | 12 | 2 |
| 754 | Florida | 324 | 12 | 114 | 25 | 342 | 30 | 36 | 5 | 0 | 0 | 3 | 2 |
| 757 | Virginia | 2,414 | 73 | 1,640 | 22 | 2,129 | 73 | 439 | 5 | 3 | 0 | 37 | 4 |
| 760 | California | 2,106 | 72 | 2,583 | 47 | 2,096 | 88 | 368 | 7 | 0 | 0 | 11 | 2 |
| 762 | Georgia | 115 | 9 | 848 | 32 | 97 | 8 | 172 | 6 | 2 | 0 | 2 | 1 |
| 763 | Minnesota | 1,235 | 40 | 932 | 44 | 902 | 27 | 78 | 7 | 0 | 0 | 2 | 2 |
| 765 | Indiana | 1,015 | 28 | 2,998 | 51 | 1,153 | 40 | 669 | 7 | 0 | 0 | 0 | 1 |
| 769 | Mississippi | 108 | 6 | 238 | 18 | 112 | 7 | 154 | 8 | 2 | 0 | 13 | 2 |
| 770 | Georgia | 2,466 | 83 | 1,571 | 34 | 1,618 | 31 | 77 | 7 | 1 | 0 | 0 | 2 |
| 772 | Florida | 562 | 71 | 599 | 37 | 600 | 22 | 159 | 5 | 0 | 0 | 7 | 2 |
| 773 | Illinois | 1,828 | 98 | 1,946 | 29 | 2,193 | 95 | 1,118 | 5 | 0 | 0 | 2 | 2 |
| 774 | Massachusetts | 709 | 42 | 1,249 | 29 | 1,054 | 50 | 451 | 5 | 0 | 0 | 66 | 1 |
| 775 | Nevada | 946 | 21 | 2,593 | 32 | 842 | 34 | 323 | 8 | 0 | 0 | 1 | 2 |
| 779 | Illinois | 190 | 12 | 357 | 31 | 227 | 14 | 200 | 8 | 0 | 0 | 7 | 2 |
| 781 | Massachusetts | 2,445 | 142 | 2,950 | 31 | 1,251 | 34 | 418 | 5 | 0 | 0 | 30 | 2 |
| 785 | Kansas | 779 | 22 | 3,373 | 51 | 784 | 26 | 723 | 9 | 0 | 0 | 0 | 1 |
| 786 | Florida | 1,235 | 176 | 656 | 39 | 2,748 | 194 | 264 | 6 | 1 | 0 | 5 | 4 |
| 787 | Puerto Rico | 1,525 | 46 | 1,619 | 6 | 3,102 | 91 | 456 | 6 | 0 | 0 | 0 | 0 |
| 801 | Utah | 3,357 | 180 | 1,500 | 22 | 1,954 | 39 | 145 | 5 | 0 | 0 | 3 | 2 |
| 802 | Vermont | 1,085 | 41 | 2,511 | 29 | 664 | 15 | 157 | 5 | 0 | 0 | 1 | 2 |
| 803 | South Carolina | 1,541 | 84 | 2,234 | 48 | 1,893 | 79 | 648 | 8 | 0 | 0 | 7 | 3 |
| 804 | Virginia | 1,960 | 88 | 1,770 | 25 | 1,637 | 55 | 315 | 6 | 0 | 0 | 28 | 4 |
| 805 | California | 2,020 | 65 | 2,388 | 44 | 1,965 | 60 | 363 | 7 | 0 | 0 | 36 | 3 |
| 806 | Texas | 707 | 34 | 3,538 | 36 | 990 | 31 | 554 | 7 | 0 | 0 | 0 | 1 |
| 808 | Hawaii | 460 | 7 | 247 | 11 | 1,769 | 61 | 250 | 4 | 0 | 0 | 0 | 1 |
| 810 | Michigan | 814 | 33 | 1,645 | 35 | 1,003 | 34 | 436 | 6 | 0 | 0 | 0 | 1 |
| 812 | Indiana | 1,328 | 42 | 3,554 | 49 | 1,718 | 55 | 643 | 9 | 0 | 0 | 0 | 1 |
| 813 | Florida | 1,852 | 146 | 2,027 | 36 | 1,975 | 77 | 352 | 6 | 1 | 0 | 8 | 4 |
| 814 | Pennsylvania | 1,221 | 85 | 3,510 | 34 | 1,394 | 38 | 364 | 15 | 0 | 0 | 22 | 4 |
| 815 | Illinois | 1,613 | 55 | 3,705 | 54 | 1,564 | 36 | 358 | 10 | 0 | 0 | 2 | 2 |
| 816 | Missouri | 1,665 | 55 | 2,241 | 39 | 1,697 | 65 | 343 | 7 | 0 | 0 | 8 | 4 |
| 817 | Texas | 2,349 | 57 | 2,636 | 45 | 1,998 | 33 | 47 | 6 | 1 | 0 | 6 | 2 |
| 818 | California | 2,403 | 103 | 1,980 | 36 | 2,236 | 76 | 258 | 5 | 0 | 0 | 2 | 2 |
| 828 | North Carolina | 1,009 | 55 | 2,014 | 37 | 1,338 | 49 | 453 | 7 | 1 | 0 | 12 | 2 |
| 830 | Texas | 668 | 19 | 2,091 | 40 | 664 | 24 | 421 | 9 | 0 | 0 | 18 | 1 |
| 831 | California | 851 | 30 | 1,409 | 32 | 831 | 29 | 124 | 5 | 0 | 0 | 21 | 3 |
| 832 | Texas | 2,035 | 81 | 940 | 40 | 3,807 | 170 | 671 | 6 | 0 | 0 | 7 | 2 |
| 838 | New York | 12 | 0 | 78 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 843 | South Carolina | 1,510 | 92 | 2,742 | 42 | 1,884 | 79 | 575 | 8 | 0 | 0 | 6 | 3 |
| 845 | New York | 1,607 | 127 | 2,383 | 46 | 1,359 | 46 | 306 | 6 | 0 | 0 | 64 | 4 |
| 847 | Illinois | 3,048 | 93 | 2,317 | 30 | 1,425 | 20 | 487 | 5 | 2 | 0 | 3 | 2 |
| 848 | New Jersey | 216 | 8 | 205 | 24 | 318 | 20 | 163 | 5 | 0 | 0 | 9 | 1 |

Table 7
Assigned, Aging, and Available Telephone Numbers by Area Code as of December 31, 2017 (in thousands except OCNs)

| Area Code | State / Jurisdiction | Wireline (CLECs and ILECs) |  |  |  | Mobile Wireless |  |  |  | VoIP |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Assigned | Aging | Available | OCNs | Assigned | Aging | Available | OCNs | Assigned | Aging | Available | OCNs |
| 850 | Florida | 1,545 | 81 | 2,444 | 30 | 1,693 | 69 | 582 | 9 | 0 | 0 | 0 | 1 |
| 854 | South Carolina | 24 | 2 | 32 | 10 | 7 | 1 | 12 | 3 | 2 | 0 | 2 | 2 |
| 856 | New Jersey | 1,663 | 102 | 1,978 | 37 | 1,032 | 39 | 248 | 6 | 0 | 0 | 23 | 2 |
| 857 | Massachusetts | 652 | 45 | 467 | 33 | 987 | 39 | 239 | 7 | 1 | 0 | 13 | 3 |
| 858 | California | 1,666 | 84 | 1,193 | 31 | 870 | 24 | 119 | 5 | 0 | 0 | 8 | 2 |
| 859 | Kentucky | 1,218 | 64 | 2,280 | 33 | 1,212 | 41 | 455 | 10 | 0 | 0 | 2 | 2 |
| 860 | Connecticut | 2,014 | 74 | 2,877 | 23 | 1,978 | 61 | 248 | 6 | 0 | 0 | 14 | 2 |
| 862 | New Jersey | 384 | 21 | 302 | 36 | 774 | 44 | 246 | 6 | 0 | 0 | 17 | 2 |
| 863 | Florida | 683 | 52 | 1,217 | 32 | 965 | 42 | 452 | 8 | 0 | 0 | 9 | 3 |
| 864 | South Carolina | 1,290 | 157 | 1,938 | 37 | 1,620 | 64 | 407 | 6 | 2 | 0 | 8 | 3 |
| 865 | Tennessee | 955 | 61 | 1,056 | 27 | 1,218 | 46 | 193 | 7 | 0 | 0 | 29 | 4 |
| 870 | Arkansas | 732 | 26 | 3,646 | 40 | 1,099 | 47 | 1,059 | 6 | 0 | 0 | 0 | 1 |
| 872 | Illinois | 290 | 28 | 230 | 21 | 153 | 15 | 361 | 5 | 0 | 0 | 17 | 3 |
| 878 | Pennsylvania | 48 | 2 | 154 | 18 | 34 | 2 | 78 | 6 | 0 | 0 | 12 | 2 |
| 901 | Tennessee | 1,387 | 82 | 934 | 29 | 1,550 | 65 | 313 | 7 | 0 | 0 | 15 | 4 |
| 903 | Texas | 1,282 | 35 | 3,280 | 50 | 1,625 | 52 | 631 | 9 | 0 | 0 | 5 | 2 |
| 904 | Florida | 1,612 | 146 | 1,267 | 31 | 1,852 | 77 | 281 | 7 | 1 | 0 | 23 | 4 |
| 906 | Michigan | 253 | 5 | 2,043 | 23 | 302 | 10 | 581 | 5 | 0 | 0 | 0 | 1 |
| 907 | Alaska | 904 | 34 | 2,909 | 27 | 831 | 32 | 1,266 | 13 | 0 | 0 | 0 | 1 |
| 908 | New Jersey | 1,612 | 69 | 2,232 | 39 | 1,640 | 45 | 509 | 5 | 0 | 0 | 18 | 2 |
| 909 | California | 1,943 | 71 | 1,654 | 39 | 2,327 | 118 | 350 | 6 | 0 | 0 | 19 | 2 |
| 910 | North Carolina | 1,585 | 69 | 2,430 | 39 | 1,677 | 73 | 583 | 7 | 0 | 0 | 19 | 4 |
| 912 | Georgia | 879 | 41 | 2,230 | 41 | 1,172 | 60 | 753 | 9 | 2 | 0 | 15 | 4 |
| 913 | Kansas | 1,327 | 49 | 1,314 | 37 | 1,336 | 46 | 179 | 6 | 1 | 0 | 7 | 2 |
| 914 | New York | 1,939 | 110 | 1,571 | 40 | 1,375 | 44 | 498 | 5 | 0 | 0 | 16 | 2 |
| 915 | Texas | 794 | 22 | 648 | 24 | 1,025 | 53 | 206 | 7 | 0 | 0 | 0 | 1 |
| 916 | California | 2,465 | 83 | 1,888 | 37 | 2,214 | 87 | 226 | 6 | 1 | 0 | 12 | 4 |
| 917 | New York | 1,166 | 55 | 275 | 29 | 3,637 | 109 | 243 | 6 | 0 | 0 | 1 | 2 |
| 918 | Oklahoma | 1,470 | 60 | 3,073 | 54 | 1,705 | 97 | 840 | 10 | 0 | 0 | 14 | 2 |
| 919 | North Carolina | 2,349 | 198 | 1,820 | 37 | 2,215 | 75 | 265 | 7 | 0 | 0 | 1 | 2 |
| 920 | Wisconsin | 1,420 | 35 | 2,628 | 46 | 1,440 | 40 | 768 | 10 | 1 | 0 | 29 | 3 |
| 925 | California | 1,725 | 60 | 1,944 | 33 | 1,257 | 35 | 263 | 5 | 0 | 0 | 16 | 2 |
| 928 | Arizona | 1,175 | 27 | 1,589 | 39 | 1,053 | 53 | 505 | 7 | 1 | 0 | 9 | 2 |
| 929 | New York | 565 | 33 | 533 | 25 | 1,119 | 124 | 276 | 7 | 2 | 0 | 10 | 2 |
| 930 | Indiana | 0 | 0 | 11 | 2 | 5 | 0 | 4 | 1 | 0 | 0 | 0 | 0 |
| 931 | Tennessee | 678 | 27 | 1,997 | 39 | 1,027 | 38 | 535 | 8 | 1 | 0 | 14 | 2 |
| 934 | New York | 13 | 0 | 41 | 3 | 14 | 2 | 23 | 6 | 0 | 0 | 8 | 1 |
| 936 | Texas | 629 | 19 | 1,489 | 36 | 678 | 24 | 234 | 7 | 0 | 0 | 8 | 2 |
| 937 | Ohio | 1,649 | 47 | 2,780 | 38 | 1,753 | 65 | 474 | 7 | 3 | 0 | 26 | 3 |
| 938 | Alabama | 12 | 0 | 85 | 4 | 0 | 0 | 6 | 2 | 0 | 0 | 0 | 0 |
| 939 | Puerto Rico | 35 | 5 | 292 | 4 | 923 | 63 | 548 | 5 | 0 | 0 | 0 | 0 |
| 940 | Texas | 527 | 16 | 1,978 | 48 | 638 | 18 | 509 | 8 | 1 | 0 | 2 | 2 |
| 941 | Florida | 931 | 57 | 1,137 | 34 | 972 | 37 | 190 | 6 | 0 | 0 | 7 | 2 |
| 947 | Michigan | 29 | 0 | 41 | 12 | 634 | 11 | 80 | 5 | 0 | 0 | 0 | 0 |
| 949 | California | 2,047 | 104 | 1,319 | 37 | 1,597 | 45 | 152 | 5 | 1 | 0 | 6 | 3 |
| 951 | California | 1,495 | 64 | 1,239 | 36 | 1,962 | 88 | 255 | 5 | 0 | 0 | 17 | 2 |
| 952 | Minnesota | 1,454 | 29 | 910 | 40 | 470 | 10 | 65 | 5 | 0 | 0 | 0 | 1 |
| 954 | Florida | 1,974 | 202 | 1,461 | 35 | 2,042 | 78 | 137 | 5 | 0 | 0 | 2 | 2 |
| 956 | Texas | 999 | 39 | 1,336 | 30 | 1,935 | 94 | 977 | 7 | 0 | 0 | 1 | 2 |
| 959 | Connecticut | 46 | 1 | 51 | 8 | 21 | 2 | 44 | 5 | 0 | 0 | 3 | 1 |
| 970 | Colorado | 1,649 | 53 | 2,385 | 50 | 1,303 | 40 | 612 | 11 | 6 | 0 | 22 | 2 |
| 971 | Oregon | 593 | 27 | 426 | 29 | 744 | 33 | 251 | 6 | 0 | 0 | 16 | 4 |
| 972 | Texas | 3,278 | 63 | 2,831 | 46 | 1,018 | 23 | 93 | 6 | 0 | 0 | 6 | 2 |
| 973 | New Jersey | 2,817 | 155 | 2,483 | 42 | 1,624 | 47 | 235 | 7 | 0 | 0 | 12 | 2 |
| 978 | Massachusetts | 2,367 | 167 | 2,973 | 33 | 1,538 | 43 | 266 | 5 | 0 | 0 | 52 | 2 |
| 979 | Texas | 599 | 12 | 1,455 | 40 | 624 | 20 | 308 | 8 | 0 | 0 | 11 | 2 |
| 980 | North Carolina | 658 | 33 | 459 | 32 | 629 | 34 | 312 | 6 | 0 | 0 | 25 | 4 |
| 984 | North Carolina | 231 | 7 | 252 | 22 | 134 | 9 | 153 | 5 | 0 | 0 | 17 | 3 |
| 985 | Louisiana | 630 | 33 | 1,474 | 30 | 821 | 32 | 423 | 6 | 1 | 0 | 15 | 2 |
| 989 | Michigan | 1,000 | 17 | 2,954 | 42 | 1,239 | 37 | 670 | 6 | 0 | 0 | 0 | 1 |

Source: Numbering Resource Utilization/Forecast Reports data filed with NeuStar, Inc. as of March 16, 2018.
Note: The Commission has found "that aggregated data (such as each carrier's NPA wide utilization rate and number of NXXs assigned)" are not confidential. Numbering Resource Optimization, Report and Order and Further Notice of Proposed Rulemaking, CC Docket No. 99-200, 15 FCC Rcd 7574, 7607-08, para. 79 (2000).

Table 8
Pooled Thousands-blocks as of December 31, 2017

| State / Jurisdiction | Wireline ( ILECs and CLECs) |  |  | Mobile Wireless |  |  | VoIP |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pooled | Total ${ }^{1}$ | Percent | Pooled | Total ${ }^{1}$ | Percent | Pooled | Total ${ }^{1}$ | Percent |
| Alabama | 4,019 | 13,735 | 29.3 \% | 3,352 | 8,802 | 38.1 \% | 52 | 60 | 86.7 \% |
| Alaska | 70 | 1,412 | 5.0 \% | 371 | 1,526 | 24.3 \% | 2 | 3 | 66.7 \% |
| American Samoa | 0 | 0 | NM | 0 | 0 | NM | 0 | 0 | NM |
| Arizona | 4,434 | 14,554 | 30.5 \% | 4,855 | 9,525 | 51.0 \% | 33 | 49 | 67.3 \% |
| Arkansas | 2,109 | 8,870 | 23.8 \% | 1,959 | 5,595 | 35.0 \% | 5 | 15 | 33.3 \% |
| California | 39,493 | 109,441 | 36.1 \% | 33,217 | 60,658 | 54.8 \% | 488 | 579 | 84.3 \% |
| Colorado | 5,181 | 16,096 | 32.2 \% | 3,715 | 7,884 | 47.1 \% | 266 | 807 | 33.0 \% |
| Connecticut | 3,443 | 11,031 | 31.2 \% | 2,861 | 5,349 | 53.5 \% | 41 | 49 | 83.7 \% |
| Delaware | 1,392 | 3,606 | 38.6 \% | 746 | 1,383 | 53.9 \% | 32 | 37 | 86.5 \% |
| District Of Columbia | 1,214 | 4,730 | 25.7 \% | 1,420 | 2,212 | 64.2 \% | 8 | 10 | 80.0 \% |
| Florida | 17,712 | 49,800 | 35.6 \% | 15,172 | 30,944 | 49.0 \% | 163 | 219 | 74.4 \% |
| Georgia | 8,215 | 30,035 | 27.4 \% | 8,192 | 18,044 | 45.4 \% | 81 | 121 | 66.9 \% |
| Guam | 0 | 0 | NM | 0 | 0 | NM | 0 | 0 | NM |
| Hawaii | 473 | 662 | 71.5 \% | 1,041 | 2,114 | 49.2 \% | 1 | 1 | 100.0 \% |
| Idaho | 1,294 | 4,200 | 30.8 \% | 1,101 | 2,456 | 44.8 \% | 7 | 10 | 70.0 \% |
| Illinois | 14,428 | 44,824 | 32.2 \% | 11,395 | 24,497 | 46.5 \% | 211 | 331 | 63.7 \% |
| Indiana | 5,711 | 19,929 | 28.7 \% | 4,593 | 10,908 | 42.1 \% | 30 | 73 | 41.1 \% |
| Iowa | 2,789 | 10,880 | 25.6 \% | 2,547 | 6,102 | 41.7 \% | 44 | 66 | 66.7 \% |
| Kansas | 2,667 | 9,998 | 26.7 \% | 3,648 | 6,446 | 56.6 \% | 42 | 71 | 59.2 \% |
| Kentucky | 3,351 | 17,653 | 19.0 \% | 2,798 | 7,236 | 38.7 \% | 36 | 87 | 41.4 \% |
| Louisiana | 4,285 | 13,846 | 30.9 \% | 4,068 | 8,939 | 45.5 \% | 28 | 40 | 70.0 \% |
| Maine | 1,362 | 4,485 | 30.4 \% | 911 | 2,065 | 44.1 \% | 5 | 11 | 45.5 \% |
| Maryland | 6,191 | 19,252 | 32.2 \% | 5,293 | 9,610 | 55.1 \% | 176 | 227 | 77.5 \% |
| Massachusetts | 9,770 | 29,675 | 32.9 \% | 6,481 | 11,824 | 54.8 \% | 200 | 221 | 90.5 \% |
| Michigan | 10,656 | 34,600 | 30.8 \% | 10,018 | 20,562 | 48.7 \% | 115 | 290 | 39.7 \% |
| Minnesota | 5,224 | 20,001 | 26.1 \% | 3,543 | 8,607 | 41.2 \% | 65 | 166 | 39.2 \% |
| Mississippi | 2,826 | 9,356 | 30.2 \% | 1,944 | 5,429 | 35.8 \% | 57 | 66 | 86.4 \% |
| Missouri | 6,084 | 20,445 | 29.8 \% | 4,935 | 10,442 | 47.3 \% | 77 | 107 | 72.0 \% |
| Montana | 909 | 3,045 | 29.9 \% | 458 | 1,928 | 23.8 \% | 14 | 15 | 93.3 \% |
| Nebraska | 1,499 | 5,985 | 25.0 \% | 2,001 | 4,016 | 49.8 \% | 34 | 42 | 81.0 \% |
| Nevada | 2,551 | 7,991 | 31.9 \% | 2,452 | 4,224 | 58.0 \% | 32 | 59 | 54.2 \% |
| New Hampshire | 1,253 | 4,874 | 25.7 \% | 939 | 2,170 | 43.3 \% | 1 | 14 | 7.1 \% |
| New Jersey | 10,221 | 29,801 | 34.3 \% | 7,327 | 14,911 | 49.1 \% | 162 | 187 | 86.6 \% |
| New Mexico | 1,438 | 4,736 | 30.4 \% | 1,519 | 3,211 | 47.3 \% | 96 | 337 | 28.5 \% |
| New York | 22,135 | 61,370 | 36.1 \% | 19,544 | 32,568 | 60.0 \% | 274 | 338 | 81.1 \% |
| North Carolina | 8,559 | 27,447 | 31.2 \% | 6,517 | 14,989 | 43.5 \% | 87 | 144 | 60.4 \% |
| North Dakota | 478 | 1,887 | 25.3 \% | 378 | 1,656 | 22.8 \% | 10 | 15 | 66.7 \% |
| Northern Marianas Islands | 0 | 0 | NM | 0 | 0 | NM | 0 | 0 | NM |
| Ohio | 11,275 | 36,535 | 30.9 \% | 10,313 | 21,012 | 49.1 \% | 167 | 251 | 66.5 \% |
| Oklahoma | 3,453 | 10,766 | 32.1 \% | 3,525 | 7,165 | 49.2 \% | 65 | 103 | 63.1 \% |
| Oregon | 3,739 | 11,336 | 33.0 \% | 2,893 | 5,830 | 49.6 \% | 161 | 445 | 36.2 \% |
| Pennsylvania | 13,942 | 43,705 | 31.9 \% | 10,759 | 19,963 | 53.9 \% | 217 | 333 | 65.2 \% |
| Puerto Rico | 445 | 3,503 | 12.7 \% | 2,213 | 5,343 | 41.4 \% | 0 | 0 | NM |
| Rhode Island | 774 | 3,314 | 23.4 \% | 778 | 1,573 | 49.5 \% | 28 | 38 | 73.7 \% |
| South Carolina | 3,466 | 11,632 | 29.8 \% | 3,131 | 7,357 | 42.6 \% | 34 | 38 | 89.5 \% |
| South Dakota | 503 | 2,047 | 24.6 \% | 540 | 1,763 | 30.6 \% | 14 | 20 | 70.0 \% |
| Tennessee | 5,775 | 17,829 | 32.4 \% | 5,592 | 11,444 | 48.9 \% | 121 | 207 | 58.5 \% |
| Texas | 24,409 | 75,400 | 32.4 \% | 24,509 | 43,305 | 56.6 \% | 235 | 297 | 79.1 \% |
| Utah | 2,675 | 7,540 | 35.5 \% | 2,381 | 4,522 | 52.7 \% | 114 | 262 | 43.5 \% |
| Vermont | 763 | 3,270 | 23.3 \% | 459 | 849 | 54.1 \% | 2 | 5 | 40.0 \% |
| Virgin Islands | 0 | 0 | NM | 0 | 0 | NM | 0 | 0 | NM |
| Virginia | 7,380 | 23,077 | 32.0 \% | 6,388 | 12,690 | 50.3 \% | 163 | 225 | 72.4 \% |
| Washington | 4,586 | 19,449 | 23.6 \% | 5,063 | 10,255 | 49.4 \% | 29 | 64 | 45.3 \% |
| West Virginia | 1,555 | 5,452 | 28.5 \% | 1,249 | 2,813 | 44.4 \% | 2 | 8 | 25.0 \% |
| Wisconsin | 4,336 | 17,619 | 24.6 \% | 3,215 | 10,422 | 30.8 \% | 239 | 498 | 48.0 \% |
| Wyoming | 485 | 1,569 | 30.9 \% | 248 | 990 | 25.1 \% | 16 | 18 | 88.9 \% |
| United States | 302,997 | 964,295 | 31.4 \% | 264,567 | 536,128 | 49.3 \% | 4,582 | 7,679 | 59.7 \% |

Source: Pooling data provided by NeuStar, Inc.
${ }^{1}$ Includes only those thousands-blocks in rate centers with pooling.
NM - Not meaningful.

Table 9

## Increased Utilization and Telephone Numbers Saved due to Thousands-Block Pooling as of December 31, 2017 <br> (in thousands, except OCNs)

| Carrier Type | OCNs | Numbers <br> Assigned to End-Users ${ }^{1}$ | Total <br> Numbers ${ }^{1}$ | Percent Utilized | Numbers Needed had Whole NXXs Been Issued | Utilization had Whole NXXs Been Issued | Increased Utilization Due to Pooling | Numbers Saved Due to Pooling |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Competitive LEC | 1,773 | 184,890 | 404,905 | 45.7 \% | 1,170,970 | 15.8 \% | 29.9 \% | 766,065 |
| Incumbent LEC | 446 | 53,996 | 150,932 | 35.8 \% | 188,220 | 28.7 \% | 7.1 \% | 37,288 |
| Mobile Wireless | 172 | 244,750 | 337,689 | 72.5 \% | 416,500 | 58.8 \% | 13.7 \% | 78,811 |
| VoIP | 7 | 186 | 5,697 | 3.3 \% | 36,610 | 0.5 \% | 2.8 \% | 30,913 |
| Totals | 2,398 | 483,823 | 899,223 | 53.8 \% | 1,812,300 | 26.7 \% | 27.1 \% | 913,077 |

Source: Numbering Resource Utilization/Forecast Reports data filed with NeuStar, Inc. as of March 16, 2018.
${ }^{1}$ Includes only those telephone numbers in pooled blocks on which carriers reported utilization data.
Note: NeuStar also provided data on thousands-block pooling.

Table 10
Number Utilization for Specialized Non-geographic Area Codes

| Specialized Area Codes | Assigned | Intermediate | Reserved | Aging ands of | Administrative one Numbers) | Available ${ }^{1}$ | Total | Unique NXXs |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 500 | 6,185 | 0 | 337 | 140 | 1 | 1,257 | 7,920 | 791 |
|  | 78.1\% | 0.0\% | 4.3\% | 1.8\% | 0.0\% | 15.9\% | 100.0\% |  |
| 900 | 89 | 0 | 1 | 0 | 1 | 100 | 190 | 19 |
|  | 47.0\% | 0.0\% | 0.3\% | 0.0\% | 0.4\% | 52.4\% | 100.0\% |  |

Source: Numbering Resource Utilization/Forecast Reports data filed with NeuStar, Inc. as of March 16, 2018.
${ }^{1}$ Includes only those telephone numbers in blocks on which carriers reported utilization data.

Table 11
Alternate Sources of NPA-NXX Assignments ${ }^{1}$

| NPA-NXXs that appear in | NRUF | NANPA | LERG | NXXs |
| :--- | :--- | :--- | :--- | :--- |
| All Three Databases |  |  |  |  |
| NRUF, NANPA and LERG | $\checkmark$ | $\checkmark$ | $\checkmark$ | 161,696 |
| Two of the Three Databases |  |  |  |  |
| NRUF and NANPA | $\checkmark$ | $\checkmark$ | $\checkmark$ | 114 |
| NANPA and LERG |  | $\checkmark$ | $\checkmark$ | 2,006 |
| NRUF and LERG | $\checkmark$ |  |  | 76 |
| Only One Database |  |  |  | 50 |
| NRUF |  |  | $\checkmark$ | 220 |
| NANPA |  | 164,036 | 164,038 | 260 |
| LERG |  |  |  |  |
| Total NXXs in Database. | 161,936 |  |  |  |

Sources: NANPA's NPA-NXX assignments database as of December 31, 2017; LERG, as of December 31, 2017; NRUF, as of December 31, 2017 (filings as of March 16, 2018).
${ }^{1}$ 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.




Chart 4
Paging: Average Utilitzation Rates by Number of Thousands-Blocks Held in a Rate Center



Table 12
Number Utilization over Time

| Year | Half-Year | Competitive LEC | Incumbent LEC | Mobile Wireless | Paging | VoIP | Overall |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2000 | December | 9.8 \% | 52.1 \% | 46.2 \% | 26.3 \% | n/a | 40.1 \% |
| 2001 | June | 10.9 \% | 52.1 \% | 45.3 \% | 24.8 \% | $\mathrm{n} / \mathrm{a}$ | 39.6 \% |
|  | December | 11.4 \% | 52.5 \% | 47.2 \% | 20.2 \% | n/a | 39.7 \% |
| 2002 | June | 10.4 \% | 52.2 \% | 47.5 \% | 17.6 \% | $\mathrm{n} / \mathrm{a}$ | 39.2 \% |
|  | December | 10.6 \% | 52.2 \% | 47.8 \% | 17.0 \% | n/a | 39.2 \% |
| 2003 | June | 10.7 \% | 53.2 \% | 49.0 \% | 14.3 \% | n/a | 39.9 \% |
|  | December | 10.6 \% | 52.6 \% | 50.6 \% | 13.0 \% | $\mathrm{n} / \mathrm{a}$ | 39.5 \% |
| 2004 | June | 14.8 \% | 54.5 \% | 53.9 \% | 10.9 \% | n/a | 42.3 \% |
|  | December | 16.4 \% | 53.5 \% | 54.6 \% | 10.3 \% | $\mathrm{n} / \mathrm{a}$ | 42.2 \% |
| 2005 | June | 18.1 \% | 52.8 \% | 56.9 \% | 9.9 \% | $\mathrm{n} / \mathrm{a}$ | 43.0 \% |
|  | December | 19.7 \% | 52.4 \% | 59.1 \% | 8.6 \% | $\mathrm{n} / \mathrm{a}$ | 43.4 \% |
| 2006 | June | 20.5 \% | 50.2 \% | 60.4 \% | 8.1 \% | $\mathrm{n} / \mathrm{a}$ | 43.3 \% |
|  | December | 21.5 \% | 49.3 \% | 63.3 \% | 8.0 \% | $\mathrm{n} / \mathrm{a}$ | 44.2 \% |
| 2007 | June | 25.4 \% | 50.8 \% | 64.8 \% | 7.5 \% | $\mathrm{n} / \mathrm{a}$ | 46.7 \% |
|  | December | 26.9 \% | 50.7 \% | 65.0 \% | 7.1 \% | n/a | 47.1 \% |
| 2008 | June | 30.4 \% | 50.3 \% | 65.3 \% | 6.6 \% | n/a | 48.1 \% |
|  | December | 31.1 \% | 49.6 \% | 65.6 \% | 6.7 \% | n/a | 47.9 \% |
| 2009 | June | 34.3 \% | 48.8 \% | 66.1 \% | 6.1 \% | n/a | 48.5 \% |
|  | December | 34.0 \% | 47.3 \% | 66.7 \% | 5.9 \% | $\mathrm{n} / \mathrm{a}$ | 47.9 \% |
| 2010 | June | 33.3 \% | 47.1 \% | 66.8 \% | 5.3 \% | n/a | 47.9 \% |
|  | December | 35.2 \% | 45.3 \% | 66.9 \% | 5.0 \% | $\mathrm{n} / \mathrm{a}$ | 47.6 \% |
| 2011 | June | 36.8 \% | 45.8 \% | 67.7 \% | 5.0 \% | n/a | 48.5 \% |
|  | December | 38.6 \% | 45.3 \% | 67.7 \% | 5.2 \% | $\mathrm{n} / \mathrm{a}$ | 49.0 \% |
| 2012 | June | 41.1 \% | 44.3 \% | 67.8 \% | 5.2 \% | n/a | 49.3 \% |
|  | December | 41.7 \% | 44.1 \% | 69.0 \% | 5.2 \% | $\mathrm{n} / \mathrm{a}$ | 49.8 \% |
| 2013 | June | 42.3 \% | 43.4 \% | 68.8 \% | 5.1 \% | n/a | 49.7 \% |
|  | December | 42.0 \% | 43.4 \% | 69.7 \% | 5.0 \% | 4.3 \% | 49.9 \% |
| 2014 | June | 42.1 \% | 43.1 \% | 70.7 \% | 4.5 \% | 26.8 \% | 50.1 \% |
|  | December | 43.3 \% | 42.5 \% | 70.8 \% | 4.3 \% | 20.6 \% | 50.3 \% |
| 2015 | June | 44.7 \% | 41.5 \% | 70.8 \% | 4.4 \% | 21.1 \% | 50.6 \% |
|  | December | 45.0 \% | 41.7 \% | 72.4 \% | 4.5 \% | 24.0 \% | 51.4 \% |
| 2016 | June | 42.2 \% | 40.6 \% | 73.3 \% | 4.5 \% | 6.1 \% | 50.6 \% |
|  | December | 43.5 \% | 40.1 \% | 74.1 \% | 4.5 \% | 3.3 \% | 50.9 \% |
| 2017 | June | 43.7 \% | 39.4 \% | 74.3 \% | 4.2 \% | 1.3 \% | 51.1 \% |
|  | December | 43.7 \% | 39.1 \% | 75.1 \% | 4.4 \% | 6.0 \% | 51.3 \% |

Source: Numbering Resource Utilization/Forecast Reports filed with NeuStar, Inc.as of March 16, 2018.
Note: Starting with June 2006 data, where an RBOC has acquired a carrier with CLEC services in the RBOC's operating region, the numbering resources of the acquired CLEC that are in the RBOC's operating region are counted as incumbent LEC resources. Where the acquired CLEC provides services outside of the acquirer's operating region, the numbering resources are treated as CLEC resources.

Table 13
NPA-NXX Assignments, Returns, and Net Assignments

| Year | Half-Year | Assignments | Returns | Net Assignments |
| :---: | :---: | :---: | :---: | :---: |
| $2003^{1}$ | December | 1,341 | 824 | 517 |
|  | June | 1,616 | 505 | 1,111 |
|  | December | 1,509 | 479 | 1,030 |
| 2005 | June | 1,655 | 509 | 1,146 |
|  | December | 1,421 | 449 | 972 |
| 2006 | June | 2,109 | 369 | 1,740 |
|  | December | 1,970 | 297 | 1,673 |
| 2007 | June | 1,885 | 365 | 1,520 |
|  | December | 1,331 | 384 | 947 |
| 2008 | June | 1,524 | 262 | 1,262 |
|  | December | 1,422 | 522 | 900 |
| 2009 | June | 1,170 | 304 | 866 |
|  | December | 974 | 230 | 744 |
| 2010 | June | 1,457 | 147 | 1,310 |
|  | December | 1,338 | 163 | 1,175 |
| 2011 | June | 1,357 | 404 | 953 |
|  | December | 1,535 | 216 | 1,319 |
| 2012 | June | 1,345 | 344 | 1,001 |
|  | December | 1,292 | 228 | 1,064 |
| 2013 | June | 1,519 | 151 | 1,368 |
|  | December | 1,193 | 133 | 1,060 |
| 2014 | June | 1,380 | 99 | 1,281 |
|  | December | 2,034 | 160 | 1,874 |
| 2015 | June | 1,891 | 101 | 1,790 |
|  | December | 1,837 | 132 | 1,705 |
| 2016 | June | 1,848 | 108 | 1,740 |
|  | December | 1,557 | 113 | 1,444 |
| 2017 | June | 1,359 | 128 | 1,231 |
|  | December | 1,354 | 83 | 1,271 |
|  |  |  |  |  |

Source: http://www.nanpa.com/reports/reports_cocodes_actStatus.html.
${ }^{1}$ Data from prior periods can be found in the "Data as of June 30, 2009" edition of this report, which can be found at https://www.fcc.gov/general/telephone-numberingdata.


Table 14
Number Porting Activity Since Wireless Porting Started ${ }^{1}$ (in thousands)

| Year | Half-Year | Ported from Wireline to |  |  | Ported from Wireless to |  |  | Ported from VoIP to |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Wireline | Wireless | VoIP | Wireline | Wireless ${ }^{2}$ | VoIP | Wireline | Wireless | VoIP |  |
| 2003 | December | 1,199 | 14 | n/a | 2 | 817 | n/a | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | 2,032 |
| 2004 | June | 4,559 | 455 | n/a | 8 | 4,111 | n/a | n/a | n/a | n/a | 9,133 |
|  | December | 4,470 | 595 | n/a | 8 | 4,801 | n/a | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | 9,874 |
| 2005 | June | 5,806 | 357 | n/a | 9 | 5,170 | n/a | n/a | n/a | n/a | 11,342 |
|  | December | 6,416 | 223 | n/a | 12 | 5,473 | n/a | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | 12,124 |
| 2006 | June | 7,328 | 173 | n/a | 14 | 4,983 | n/a | n/a | n/a | n/a | 12,498 |
|  | December | 5,945 | 265 | n/a | 13 | 5,287 | n/a | n/a | n/a | n/a | 11,511 |
| 2007 | June | 6,517 | 274 | n/a | 14 | 5,726 | n/a | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | 12,531 |
|  | December | 9,303 | 620 | n/a | 18 | 6,772 | n/a | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | 16,712 |
| 2008 | June | 7,815 | 125 | $\mathrm{n} / \mathrm{a}$ | 18 | 6,436 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | 14,393 |
|  | December | 5,080 | 171 | n/a | 23 | 5,455 | n/a | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | 10,729 |
| 2009 | June | 7,452 | 226 | n/a | 25 | 7,812 | n/a | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | 15,516 |
|  | December | 7,790 | 391 | $\mathrm{n} / \mathrm{a}$ | 28 | 8,097 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 16,306 |
| 2010 | June | 9,324 | 205 | n/a | 29 | 8,665 | n/a | n/a | $\mathrm{n} / \mathrm{a}$ | n/a | 18,224 |
|  | December | 11,241 | 214 | n/a | 68 | 10,696 | n/a | n/a | n/a | n/a | 22,220 |
| 2011 | June | 9,836 | 340 | n/a | 67 | 10,474 | n/a | n/a | n/a | n/a | 20,717 |
|  | December | 8,895 | 368 | n/a | 84 | 9,765 | n/a | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | 19,112 |
| 2012 | June | 9,500 | 392 | n/a | 92 | 9,270 | n/a | n/a | n/a | n/a | 19,254 |
|  | December | 11,067 | 462 | n/a | 135 | 10,222 | n/a | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | 21,887 |
| 2013 | June | 11,616 | 613 | n/a | 162 | 9,319 | n/a | n/a | n/a | n/a | 21,710 |
|  | December | 14,221 | 637 | * | 217 | 10,441 | * | * | * | 0 | 25,634 |
| 2014 | June | 12,010 | 442 | * | 176 | 10,116 | * | * | * | 0 | 22,747 |
|  | December | 13,993 | 414 | 0 | 179 | 14,222 | 0 | * | * | 0 | 28,811 |
| 2015 | June | 13,390 | 353 | 0 | 158 | 12,214 | 0 | * | * | 0 | 26,117 |
|  | December | 11,302 | 358 | 0 | 156 | 13,585 | 0 | * | * | 0 | 25,403 |
| 2016 | June | 15,229 | 370 | * | 133 | 13,058 | * | * | * | 0 | 28,792 |
|  | December | 14,784 | 312 | * | 133 | 13,878 | * | * | * | 0 | 30,139 |
| 2017 | June | 17,000 | 303 | * | 170 | 13,038 | * | 23 | * | * | 30,756 |
|  | December | 12,710 | 316 | * | 121 | 13,662 | * | * | * | 0 | 27,955 |
| Cumulative Total |  | 275,800 | 9,988 | 2,471 | 2,272 | 253,566 | * | 71 | * | * | 544,180 |

Source: Raw data from Local Number Portability Administrator (NeuStar, Inc.). Rollups performed by the Industry Analysis Division staff, Office of Economics and Analytics.
${ }^{1}$ These figures include numbers that were ported back to the original carrier, or where the subscriber with the ported number terminated service.
${ }^{2}$ Excludes significant porting activity between Cingular and AT\&T Wireless following the closing of their merger in October 2004.
$\mathrm{n} / \mathrm{a}$ indicates that value is not applicable.

* indicates a number withheld to protect provider confidentiality.
** indicates a number between 1 and 499.

Table 15
Numbers in the Porting Database ${ }^{1}$ Over Time
(in thousands)

| Year | Half-Year | Ported from Wireline to |  |  | Ported from Wireless to |  |  | Ported from VoIP to |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Wireline | Wireless | VoIP | Wireline | Wireless ${ }^{2}$ | VoIP | Wireline | Wireless | VoIP |  |
| 2003 | December | 25,869 | 16 | n/a | 2 | 795 | n/a | n/a | n/a | n/a | 26,682 |
| 2004 | June | 28,371 | 406 | n/a | 4 | 4,635 | n/a | n/a | n/a | n/a | 33,417 |
|  | December | 30,607 | 832 | $\mathrm{n} / \mathrm{a}$ | 11 | 9,041 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 41,491 |
| 2005 | June | 34,169 | 1,092 | n/a | 19 | 12,956 | n/a | n/a | n/a | n/a | 48,236 |
|  | December | 37,608 | 1,246 | n/a | 29 | 16,101 | n/a | n/a | $\mathrm{n} / \mathrm{a}$ | n/a | 54,983 |
| 2006 | June | 42,130 | 1,333 | n/a | 42 | 19,032 | n/a | n/a | n/a | n/a | 62,538 |
|  | December | 45,149 | 1,480 | n/a | 50 | 21,920 | n/a | n/a | n/a | n/a | 68,600 |
| 2007 | June | 48,416 | 1,637 | n/a | 56 | 25,399 | n/a | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | 75,508 |
|  | December ${ }^{3}$ | 53,251 | 1,880 | $\mathrm{n} / \mathrm{a}$ | 65 | 29,187 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 84,384 |
| 2008 | June | 56,229 | 1,915 | n/a | 75 | 32,140 | n/a | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | 90,358 |
|  | December | 59,045 | 2,075 | n/a | 91 | 35,991 | n/a | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | 97,201 |
| 2009 | June | 62,634 | 2,204 | n/a | 101 | 39,405 | n/a | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | 104,344 |
|  | December | 66,257 | 2,392 | n/a | 112 | 41,990 | n/a | n/a | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 110,750 |
| 2010 | June | 69,750 | 2,381 | n/a | 130 | 44,808 | n/a | n/a | n/a | n/a | 117,069 |
|  | December | 74,750 | 2,376 | n/a | 172 | 48,584 | n/a | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | 125,882 |
| 2011 | June | 78,981 | 2,514 | n/a | 204 | 52,645 | n/a | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | 134,343 |
|  | December | 82,799 | 2,649 | n/a | 218 | 53,992 | n/a | n/a | $\mathrm{n} / \mathrm{a}$ | n/a | 139,657 |
| 2012 | June | 87,343 | 2,851 | n/a | 263 | 56,310 | n/a | n/a | n/a | n/a | 146,768 |
|  | December | 92,919 | 3,117 | $\mathrm{n} / \mathrm{a}$ | 335 | 59,373 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 155,743 |
| 2013 | June | 98,903 | 3,496 | n/a | 427 | 61,631 | $\overline{\mathrm{n} / \mathrm{a}}$ | n/a | n/a | n/a | 164,457 |
|  | December | 104,093 | 3,768 | * | 517 | 63,911 | * | * | * | 0 | 172,405 |
| 2014 | June | 107,875 | 3,905 | * | 616 | 65,845 | * | * | * | 0 | 178,359 |
|  | December | 111,818 | 6,316 | * | 803 | 62,793 | * | * | * | * | 181,848 |
| 2015 | June | 117,173 | 6,551 | * | 880 | 67,541 | * | * | * | * | 192,261 |
|  | December | 121,636 | 6,772 | * | 924 | 71,411 | * | * | * | * | 200,859 |
| 2016 | June | 123,967 | 6,983 | * | 968 | 75,137 | * | * | * | * | 207,168 |
|  | December | 130,754 | 7,146 | * | 1,002 | 78,437 | * | * | * | * | 218,465 |
| 2017 | June | 136,773 | 7,286 | $1,227$ | $995$ | $81,134$ | * | 4 | * | * | 227,482 |
|  | December | 139,127 | 7,451 | 2,334 | 1,025 | 83,898 | * | 5 | * | * | 233,858 |

Source: Raw data from Local Number Portability Administrator (NeuStar, Inc.). Rollups performed by the Industry Analysis Division staff, Office of Economics and Analytics.
${ }^{1}$ The vast majority of these numbers are ported because customers changed carriers.
${ }^{2}$ Excludes significant porting activity between Cingular and AT\&T Wireless following the closing of their merger in October 2004.
${ }^{3}$ Starting with the July 2007 data, the method of determining whether a port came from a wireline or wireless carrier changed. For numbers that have been ported multiple times, the original carrier is now used to determine the porting carrier's type. Previously, the porting carrier's type was based on the most recent port. This was done to better estimate the number of phone numbers used in wireline and wireless service.
$\mathrm{n} / \mathrm{a}$ indicates that value is not applicable.

* indicates a number withheld to protect provider confidentiality.
** indicates a number between 1 and 499.

Table 16
Numbers in the Porting Database ${ }^{1}$ by Porting Date ${ }^{2}$ as of December 31, 2017
(in thousands)

| Year | Half-Year | Ported from Wireline to |  |  | Ported from Wireless to |  |  | Ported from VoIP to |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Wireline | Wireless | VoIP | Wireline | Wireless ${ }^{3}$ | VoIP | Wireline | Wireless | VoIP |  |
| 2003 | December | 805 | 5 | n/a | 4 | 166 | n/a | n/a | n/a | n/a | 980 |
| 2004 | June | 818 | 97 | $\mathrm{n} / \mathrm{a}$ | 5 | 753 | n/a | n/a | n/a | n/a | 1,672 |
|  | December | 1,101 | 141 | $\mathrm{n} / \mathrm{a}$ | 4 | 939 | n/a | n/a | n/a | $\mathrm{n} / \mathrm{a}$ | 2,185 |
| 2005 | June | 1,112 | 85 | n/a | 5 | 951 | n/a | n/a | n/a | n/a | 2,154 |
|  | December | 1,223 | 88 | $\mathrm{n} / \mathrm{a}$ | 5 | 1,136 | n/a | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | 2,452 |
| 2006 | June | 1,320 | 67 | $\mathrm{n} / \mathrm{a}$ | 6 | 1,074 | n/a | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | 2,466 |
|  | December | 1,301 | 119 | $\mathrm{n} / \mathrm{a}$ | 7 | 1,241 | n/a | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | 2,668 |
| 2007 | June | 1,324 | 126 | n/a | 6 | 1,096 | n/a | n/a | n/a | n/a | 2,552 |
|  | December | 1,579 | 246 | $\mathrm{n} / \mathrm{a}$ | 11 | 1,370 | n/a | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 3,205 |
| 2008 | June | 1,759 | 80 | n/a | 13 | 1,243 | n/a | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | 3,095 |
|  | December | 1,801 | 118 | $\mathrm{n} / \mathrm{a}$ | 7 | 1,833 | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | 3,759 |
| 2009 | June | 1,869 | 119 | n/a | 7 | 1,692 | n/a | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | 3,686 |
|  | December | 2,203 | 187 | $\mathrm{n} / \mathrm{a}$ | 10 | 1,954 | n/a | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | 4,354 |
| 2010 | June | 2,365 | 131 | n/a | 8 | 1,604 | n/a | n/a | n/a | n/a | 4,109 |
|  | December | 3,106 | 154 | n/a | 15 | 1,957 | n/a | n/a | n/a | n/a | 5,233 |
| 2011 | June | 3,215 | 214 | n/a | 17 | 2,084 | n/a | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | 5,530 |
|  | December | 3,689 | 238 | $\mathrm{n} / \mathrm{a}$ | 26 | 2,117 | n/a | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | 6,070 |
| 2012 | June | 4,046 | 237 | n/a | 37 | 1,851 | n/a | n/a | n/a | n/a | 6,171 |
|  | December | 4,849 | 304 | $\mathrm{n} / \mathrm{a}$ | 44 | 2,605 | n/a | n/a | n/a | n/a | 7,802 |
| 2013 | June | 5,094 | 367 | n/a | 44 | 2,599 | n/a | n/a | n/a | n/a | 8,103 |
|  | December | 6,120 | 373 | * | 64 | 3,068 | * | * | * | * | 9,714 |
| 2014 | June | 6,327 | 370 | * | 71 | 3,491 | * | * | * | 0 | 10,261 |
|  | December | 7,681 | 440 | 0 | 84 | 5,186 | 0 | * | * | 0 | 13,390 |
| 2015 | June | 9,751 | 395 | 0 | 97 | 4,574 | 0 | * | * | 0 | 14,818 |
|  | December | 8,379 | 457 | 0 | 78 | 5,685 | 0 | * | * | 0 | 14,600 |
| 2016 | June | 10,498 | 475 | * | 65 | 5,894 | * | * | * | 0 | 16,934 |
|  | December | 12,598 | 525 | * | 64 | 7,243 | * | * | * | * | 21,382 |
| 2017 | June | $15,336$ | 579 | * | 108 | 8,025 | * | ** | * | * | 24,255 |
|  | December | 12,134 | 714 | * | 95 | 10,465 | * | * | * | * | 24,512 |
| Cumulative Total |  | 139,127 | 7,451 | 2,334 | 1,025 | 83,898 | * | 5 | * | * | 233,858 |

Source: Raw data from Local Number Portability Administrator (NeuStar, Inc.) as of December 31, 2017. Rollups performed by the Industry Analysis Division staff, Office of Economics and Analytics.
${ }^{1}$ The vast majority of these numbers are ported because customers changed carriers.
${ }^{2}$ The local number portability database was designed solely for the purpose of routing calls. As such, it retains only the most recent porting activity for any given number. So if a consumer ports a number from Carrier A to Carrier B, and later the consumer then ports the number from Carrier B to Carrier C, the database will not reflect the original port from Carrier A to Carrier B. Also, numbers that revert back to the original carrier (either because the customer ports the number back to the original carrier or because the customer discontinues service with that number) are dropped from the database. Lastly, area code splits can make a number appear to be ported later than it actually was. Starting with the July 2007 edition of this report, the methodology for determining whether a number was ported away from a wireline or a wireless carrier changed. Rather than relying on the carrier type of the most recent port, the numbers now reflect the original carrier type, based on the carrier that is assigned the thousands block of the donated number.
$\mathrm{n} / \mathrm{a}$ indicates that value is not applicable.

* indicates a number withheld to protect provider confidentiality.
** indicates a number between 1 and 499.

Table 17
Numbers Ported ${ }^{1}$ from Wireline Carriers by State and Recipient Carier Type (Numbers Ported in thousands)

| State / Jurisdiction | Wireline to Wireline |  |  | Wireline to Wireless |  |  | Wireline to VoIP |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Carriers <br> Porting | Carriers <br> Receiving | Numbers Ported | Carriers <br> Porting | Carriers <br> Receiving | Numbers Ported | Carriers Porting | Carriers <br> Receiving | Numbers Ported |
| Alabama | 68 | 63 | 1,551 | 71 | 9 | 96 | 21 | 1-3 | * |
| Alaska | 14 | 10 | 178 | 15 | 7 | 17 | 0 | 0 | 0 |
| American Samoa | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Arizona | 42 | 44 | 2,542 | 39 | 9 | 87 | 28 | 1-3 | * |
| Arkansas | 41 | 37 | 733 | 43 | 6 | 125 | 0 | 0 | 0 |
| California | 85 | 78 | 17,841 | 83 | 10 | 506 | 61 | 1-3 | * |
| Colorado | 48 | 53 | 2,780 | 55 | 14 | 91 | 31 | 1-3 | * |
| Connecticut | 34 | 49 | 1,846 | 29 | 7 | 246 | 28 | 1-3 | * |
| Delaware | 29 | 45 | 888 | 21 | 6 | 9 | 17 | 1-3 | * |
| District of Columbia | 34 | 45 | 997 | 23 | 6 | 10 | 27 | 1-3 | * |
| Florida | 84 | 86 | 8,506 | 75 | 10 | 521 | 58 | 4 | 230 |
| Georgia | 96 | 90 | 4,176 | 87 | 9 | 162 | 45 | 1-3 | * |
| Guam | 4 | 4 | 13 | 1-3 | 1-3 | * | 0 | 0 | 0 |
| Hawaii | 11 | 16 | 394 | 10 | 4 | 11 | 0 | 0 | 0 |
| Idaho | 41 | 45 | 403 | 38 | 11 | 45 | 10 | 1-3 | * |
| Illinois | 93 | 88 | 7,012 | 87 | 9 | 209 | 36 | 1-3 | * |
| Indiana | 83 | 79 | 1,990 | 82 | 8 | 121 | 15 | 1-3 | * |
| Iowa | 128 | 106 | 663 | 162 | 9 | 46 | 1-3 | 1-3 | * |
| Kansas | 64 | 66 | 1,194 | 77 | 13 | 334 | 24 | 1-3 | * |
| Kentucky | 67 | 67 | 1,867 | 53 | 12 | 107 | 12 | 1-3 | * |
| Louisiana | 53 | 52 | 1,582 | 45 | 8 | 51 | 8 | 1-3 | * |
| Maine | 44 | 38 | 465 | 41 | 6 | 25 | 0 | 0 | 0 |
| Maryland | 59 | 56 | 2,868 | 43 | 8 | 59 | 36 | 1-3 | * |
| Massachusetts | 45 | 52 | 5,433 | 38 | 8 | 97 | 30 | 1-3 | * |
| Michigan | 92 | 79 | 4,280 | 91 | 9 | 199 | 45 | 1-3 | * |
| Minnesota | 118 | 95 | 2,722 | 128 | 8 | 475 | 39 | 1-3 | * |
| Mississippi | 51 | 50 | 674 | 43 | 7 | 66 | 23 | 1-3 | * |
| Missouri | 64 | 61 | 2,598 | 66 | 8 | 269 | 36 | 1-3 | * |
| Montana | 31 | 32 | 176 | 31 | 10 | 25 | 6 | 1-3 | * |
| Nebraska | 55 | 53 | 552 | 68 | 8 | 50 | 1-3 | 1-3 | * |
| Nevada | 40 | 44 | 1,164 | 32 | 8 | 29 | 18 | 1-3 | * |
| New Hampshire | 37 | 33 | 656 | 30 | 6 | 21 | 1-3 | 1-3 | * |
| New Jersey | 56 | 56 | 4,322 | 41 | 7 | 84 | 40 | 1-3 | * |
| New Mexico | 40 | 39 | 402 | 37 | 10 | 32 | 19 | 1-3 | * |
| New York | 113 | 104 | 10,991 | 104 | 9 | 250 | 57 | 1-3 | * |
| North Carolina | 76 | 80 | 3,277 | 73 | 10 | 155 | 42 | 1-3 | * |
| North Dakota | 33 | 31 | 151 | 42 | 7 | 18 | 4 | 1-3 | * |
| Northern Mariana Islands | 0 | 0 | 0 | 1-3 | 1-3 | * | 0 | 0 | 0 |
| Ohio | 95 | 91 | 4,561 | 93 | 7 | 288 | 41 | 1-3 | * |
| Oklahoma | 54 | 47 | 1,256 | 57 | 14 | 66 | 7 | 1-3 | * |
| Oregon | 61 | 62 | 1,409 | 58 | 9 | 81 | 30 | 1-3 | * |
| Pennsylvania | 96 | 80 | 6,684 | 88 | 11 | 245 | 65 | 1-3 | * |
| Puerto Rico | 8 | 9 | 397 | 6 | 5 | 32 | 0 | 0 | 0 |
| Rhode Island | 22 | 30 | 623 | 15 | 5 | 10 | 4 | 1-3 | * |
| South Carolina | 67 | 70 | 1,440 | 65 | 7 | 74 | 19 | 1-3 | * |
| South Dakota | 39 | 37 | 165 | 45 | 7 | 18 | 4 | 1-3 | * |
| Tennessee | 77 | 75 | 2,547 | 73 | 12 | 447 | 40 | 1-3 | * |
| Texas | 122 | 113 | 10,946 | 136 | 18 | 1,078 | 68 | 1-3 | * |
| Utah | 31 | 35 | 1,625 | 35 | 11 | 56 | 16 | 1-3 | * |
| Vermont | 27 | 21 | 213 | 21 | 5 | 9 | 0 | 0 | 0 |
| Virgin Islands | 1-3 | 1-3 | * | 1-3 | 4 | * | 0 | 0 | 0 |
| Virginia | 71 | 69 | 3,798 | 56 | 9 | 123 | 34 | 1-3 | * |
| Washington | 62 | 61 | 3,016 | 54 | 7 | 104 | 32 | 1-3 | * |
| West Virginia | 33 | 35 | 418 | 23 | 6 | 18 | 1-3 | 1-3 | * |
| Wisconsin | 108 | 73 | 2,054 | 136 | 11 | 146 | 24 | 1-3 | * |
| Wyoming | 25 | 25 | 89 | 25 | 9 | 12 | 6 | 1-3 | * |
| United States | 2,719 | 1,187 | 139,127 | 2,680 | 98 | 7,451 | 1,070 | 4 | 2,334 |

Source: Raw data from Local Number Portability Administrator (NeuStar, Inc.) as of December 31, 2017. Rollups performed by the Industry Analysis Division staff, Office of Economics and Analytics.
${ }^{1}$ Starting with the July 2007 report, the method of determining whether a port came from a wireline or wireless carrier changed. For numbers ported multiple times, the original carrier is now used to determine the porting carrier's type. Previously the porting carrier's type was based on the most recent port. This is done to better estimate the number of phone numbers used in wireline and wireless service.

* Indicates that the number has been withheld to protect carrier confidentiality.
** Indicates a number between 1 and 499.

Table 18
Numbers Ported ${ }^{1}$ from Wireless Carriers by State and Recipient Carier Type (Numbers Ported in thousands)

| State / Jurisdiction | Wireless to Wireline |  |  | Wireless to Wireless |  |  | Wireless to VoIP |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Carriers <br> Porting | Carriers Receiving | Numbers Ported | Carriers <br> Porting | Carriers Receiving | Numbers Ported | Carriers <br> Porting | Carriers <br> Receiving | Numbers Ported |
| Alabama | 9 | 46 | 9 | 9 | 9 | 1,128 | 4 | 1-3 | * |
| Alaska | 7 | 11 | 1 | 7 | 8 | 139 | 0 | 0 | 0 |
| American Samoa | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Arizona | 7 | 33 | 14 | 8 | 8 | 1,809 | 5 | 1-3 | * |
| Arkansas | 7 | 27 | 4 | 8 | 5 | 509 | 0 | 0 | 0 |
| California | 11 | 63 | 168 | 12 | 11 | 11,063 | 7 | 1-3 | * |
| Colorado | 12 | 35 | 17 | 12 | 12 | 1,672 | 6 | 1-3 | * |
| Connecticut | 4 | 27 | 6 | 4 | 5 | 699 | 4 | 1-3 | * |
| Delaware | 5 | 34 | 4 | 5 | 5 | 204 | 5 | 1-3 | * |
| District of Columbia | 6 | 30 | 7 | 5 | 6 | 366 | 5 | 1-3 | * |
| Florida | 10 | 59 | 52 | 11 | 10 | 5,867 | 7 | 1-3 | * |
| Georgia | 11 | 61 | 33 | 8 | 8 | 2,673 | 5 | 1-3 | * |
| Guam | 0 | 0 | 0 | 5 | 5 | 39 | 0 | 0 | 0 |
| Hawaii | 4 | 15 | 1 | 5 | 4 | 402 | 0 | 0 | 0 |
| Idaho | 8 | 31 | 4 | 10 | 12 | 382 | 1-3 | 1-3 | * |
| Illinois | 11 | 60 | 41 | 12 | 10 | 4,075 | 5 | 1-3 | * |
| Indiana | 10 | 56 | 15 | 12 | 9 | 1,434 | 4 | 1-3 | * |
| Iowa | 9 | 42 | 12 | 11 | 9 | 704 | 0 | 0 | 0 |
| Kansas | 10 | 43 | 7 | 10 | 14 | 631 | 1-3 | 1-3 | * |
| Kentucky | 18 | 43 | 6 | 17 | 12 | 868 | 1-3 | 1-3 | * |
| Louisiana | 7 | 37 | 7 | 8 | 8 | 967 | 1-3 | 1-3 | * |
| Maine | 6 | 21 | 3 | 6 | 6 | 302 | 0 | 0 | 0 |
| Maryland | 10 | 44 | 17 | 11 | 7 | 1,621 | 4 | 1-3 | * |
| Massachusetts | 5 | 42 | 23 | 6 | 6 | 1,838 | 5 | 1-3 | * |
| Michigan | 8 | 58 | 30 | 9 | 8 | 2,731 | 5 | 1-3 | * |
| Minnesota | 7 | 47 | 14 | 7 | 8 | 1,126 | 1-3 | 1-3 | * |
| Mississippi | 8 | 35 | 3 | 9 | 8 | 623 | 5 | 1-3 | * |
| Missouri | 9 | 43 | 15 | 9 | 9 | 1,371 | 5 | 1-3 | * |
| Montana | 6 | 22 | 1 | 11 | 10 | 169 | 0 | 0 | 0 |
| Nebraska | 6 | 27 | 4 | 10 | 11 | 361 | 0 | 0 | 0 |
| Nevada | 8 | 33 | 7 | 8 | 9 | 789 | 5 | 1-3 | * |
| New Hampshire | 6 | 24 | 4 | 6 | 6 | 312 | 0 | 0 | 0 |
| New Jersey | 9 | 46 | 79 | 8 | 6 | 2,391 | 7 | 1-3 | * |
| New Mexico | 8 | 30 | 3 | 10 | 9 | 550 | 5 | 1-3 | * |
| New York | 10 | 78 | 116 | 10 | 8 | 5,964 | 6 | 1-3 | * |
| North Carolina | 11 | 53 | 25 | 11 | 9 | 2,272 | 5 | 1-3 | * |
| North Dakota | 4 | 19 | 1 | 5 | 9 | 141 | 0 | 0 | 0 |
| Northern Mariana Islands | 1-3 | 1-3 | * | 1-3 | 4 | * | 0 | 0 | 0 |
| Ohio | 9 | 61 | 36 | 10 | 6 | 2,815 | 4 | 1-3 | * |
| Oklahoma | 8 | 32 | 8 | 16 | 14 | 894 | 0 | 0 | 0 |
| Oregon | 7 | 45 | 15 | 8 | 9 | 1,088 | 6 | 1-3 | * |
| Pennsylvania | 17 | 57 | 39 | 19 | 11 | 3,126 | 8 | 1-3 | * |
| Puerto Rico | 5 | 8 | 4 | 5 | 5 | 905 | 0 | 0 | 0 |
| Rhode Island | 5 | 20 | 3 | 5 | 5 | 309 | 0 | 0 | 0 |
| South Carolina | 8 | 54 | 9 | 8 | 8 | 1,043 | 0 | 0 | 0 |
| South Dakota | 1-3 | 19 | * | 5 | 7 | 218 | 0 | 0 | 0 |
| Tennessee | 11 | 47 | 7 | 12 | 11 | 1,378 | 5 | 1-3 | * |
| Texas | 18 | 78 | 53 | 18 | 17 | 6,991 | 7 | 1-3 | * |
| Utah | 6 | 27 | 14 | 9 | 11 | 844 | 4 | 1-3 | * |
| Vermont | 5 | 13 | 2 | 5 | 6 | 108 | 0 | 0 | 0 |
| Virgin Islands | 4 | 1-3 | * | 4 | 4 | 12 | 0 | 0 | 0 |
| Virginia | 11 | 45 | 28 | 12 | 7 | 2,117 | 5 | 1-3 | * |
| Washington | 9 | 45 | 32 | 9 | 8 | 1,976 | 6 | 1-3 | * |
| West Virginia | 9 | 22 | 3 | 11 | 6 | 301 | 0 | 0 | 0 |
| Wisconsin | 12 | 49 | 19 | 11 | 11 | 1,486 | 5 | 1-3 | * |
| Wyoming | 6 | 17 | 1 | 8 | 9 | 93 | 1-3 | 1-3 | * |
| United States | 188 | 656 | 1,025 | 212 | 102 | 83,898 | 66 | 1-3 | * |

Source: Raw data from Local Number Portability Administrator (NeuStar, Inc.) as of December 31, 2017. Rollups performed by the Industry Analysis Division staff, Office of Economics and Analytics.
${ }^{1}$ Starting with the July 2007 report, the method of determining whether a port came from a wireline or wireless carrier changed. For numbers ported multiple times, the original carrier is now used to determine the porting carrier's type. Previously the porting carrier's type was based on the most recent port. This is done to better estimate the number of phone numbers used in wireline and wireless service.

* Indicates that the number has been withheld to protect carrier confidentiality.
** Indicates a number between 1 and 499.

Table 19
Numbers Ported ${ }^{1}$ from VoIP Providers by State and Recipient Carier Type (Numbers Ported in thousands)

| State / Jurisdiction | VoIP to Wireline |  |  | VoIP to Wireless |  |  | VoIP to VoIP |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Carriers Porting | Carriers Receiving | Numbers Ported | Carriers Porting | Carriers Receiving | Numbers Ported | Carriers Porting | Carriers Receiving | Numbers Ported |
| Alabama | 1-3 | 8 | * | 1-3 | 1-3 | * | 0 | 0 | 0 |
| Alaska | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| American Samoa | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Arizona | 1-3 | 1-3 | * | 1-3 | 1-3 | * | 0 | 0 | 0 |
| Arkansas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| California | 1-3 | 34 | * | 1-3 | 7 | * | 1-3 | 1-3 | * |
| Colorado | 1-3 | 5 | * | 1-3 | 6 | * | 0 | 0 | 0 |
| Connecticut | 1-3 | 4 | * | 1-3 | 1-3 | * | 0 | 0 | 0 |
| Delaware | 1-3 | 6 | * | 1-3 | 1-3 | * | 0 | 0 | 0 |
| District of Columbia | 1-3 | 6 | * | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida | 1-3 | 7 | * | 1-3 | 4 | * | 0 | 0 | 0 |
| Georgia | 1-3 | 14 | * | 1-3 | 5 | * | 1-3 | 1-3 | * |
| Guam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hawaii | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Idaho | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Illinois | 1-3 | 9 | * | 1-3 | 5 | * | 1-3 | 1-3 | * |
| Indiana | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Iowa | 1-3 | 1-3 | * | 0 | 0 | 0 | 0 | 0 | 0 |
| Kansas | 1-3 | 1-3 | * | 1-3 | 6 | * | 0 | 0 | 0 |
| Kentucky | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Louisiana | 1-3 | 1-3 | * | 0 | 0 | 0 | 0 | 0 | 0 |
| Maine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Maryland | 1-3 | 13 | * | 1-3 | 1-3 | * | 1-3 | 1-3 | * |
| Massachusetts | 1-3 | 21 | * | 1-3 | 5 | * | 1-3 | 1-3 | * |
| Michigan | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | 0 | 0 | 0 | 1-3 | 1-3 | * | 0 | 0 | 0 |
| Mississippi | 1-3 | 1-3 | * | 1-3 | 5 | * | 0 | 0 | 0 |
| Missouri | 1-3 | 6 | * | 1-3 | 1-3 | * | 0 | 0 | 0 |
| Montana | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nevada | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Hampshire | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Jersey | 1-3 | 17 | * | 1-3 | 5 | * | 1-3 | 1-3 | * |
| New Mexico | 0 | 0 | 0 | 1-3 | 1-3 | * | 0 | 0 | 0 |
| New York | 1-3 | 27 | * | 1-3 | 5 | * | 1-3 | 1-3 | * |
| North Carolina | 1-3 | 6 | * | 1-3 | 1-3 | * | 1-3 | 1-3 | * |
| North Dakota | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Northern Mariana Islands | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ohio | 1-3 | 13 | * | 1-3 | 5 | * | 0 | 0 | 0 |
| Oklahoma | 1-3 | 10 | * | 1-3 | 7 | * | 0 | 0 | 0 |
| Oregon | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pennsylvania | 1-3 | 25 | * | 1-3 | 5 | * | 1-3 | 1-3 | * |
| Puerto Rico | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rhode Island | 1-3 | 1-3 | * | 0 | 0 | 0 | 0 | 0 | 0 |
| South Carolina | 1-3 | 6 | * | 0 | 0 | 0 | 0 | 0 | 0 |
| South Dakota | 0 | 0 | 0 | 1-3 | 1-3 | * | 0 | 0 | 0 |
| Tennessee | 1-3 | 1-3 | * | 1-3 | 5 | * | 0 | 0 | 0 |
| Texas | 1-3 | 24 | * | 1-3 | 6 | * | 1-3 | 1-3 | * |
| Utah | 1-3 | 1-3 | * | 0 | 0 | 0 | 0 | 0 | 0 |
| Vermont | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Virgin Islands | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Virginia | 1-3 | 11 | * | 1-3 | 6 | * | 1-3 | 1-3 | * |
| Washington | 1-3 | 1-3 | * | 0 | 0 | 0 | 0 | 0 | 0 |
| West Virginia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wisconsin | 1-3 | 6 | * | 1-3 | 4 | * | 0 | 0 | 0 |
| Wyoming | 0 | 0 | 0 | 1-3 | 1-3 | * | 0 | 0 | 0 |
| United States | 4 | 106 | 5 | 1-3 | 13 | * | 1-3 | 1-3 | * |

Source: Raw data from Local Number Portability Administrator (NeuStar, Inc.) as of December 31, 2017. Rollups performed by the Industry Analysis Division staff, Office of Economics and Analytics.
${ }^{1}$ Starting with the July 2007 report, the method of determining whether a port came from a wireline or wireless carrier changed. For numbers ported multiple times, the original carrier is now used to determine the porting carrier's type. Previously the porting carrier's type was based on the most recent port. This is done to better estimate the number of phone numbers used in wireline and wireless service.

* Indicates that the number has been withheld to protect carrier confidentiality.
** Indicates a number between 1 and 499.

Table 20
Percentage of Assigned Numbers in the Porting Database ${ }^{1}$ as of December 31, 2017
(Ported, Assigned in Thousands)

| State / Jurisdiction | Wireline |  |  | Wireless |  |  | Total ${ }^{2}$ |  |  | VoIP |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Ported | Assigned | Percent | Ported | Assigned | Percent | Ported | Assigned | Percent | Ported | Assigned | Percent |
| Alabama | 1,657 | 4,957 | 33.4\% | 1,137 | 5,639 | 20.2\% | 2,795 | 10,596 | 26.4\% | * | 1 | * |
| Alaska | 180 | 904 | 20.0\% | 154 | 831 | 18.6\% | 335 | 1,735 | 19.3\% | 0 | ** | 0.0\% |
| American Samoa | 0 | 7 | 0.0\% | 0 | 65 | 0.0\% | 0 | 72 | 0.0\% | 0 | 0 | NM |
| Arizona | 2,650 | 8,784 | 30.2\% | 1,843 | 7,624 | 24.2\% | 4,493 | 16,408 | 27.4\% | * | 2 | * |
| Arkansas | 838 | 2,868 | 29.2\% | 533 | 3,368 | 15.8\% | 1,371 | 6,235 | 22.0\% | 0 | ** | 0.0\% |
| California | 18,720 | 52,645 | 35.6\% | 11,296 | 49,629 | 22.8\% | 30,015 | 102,273 | 29.3\% | * | 14 | * |
| Colorado | 2,889 | 8,982 | 32.2\% | 1,713 | 6,558 | 26.1\% | 4,603 | 15,540 | 29.6\% | * | 9 | * |
| Connecticut | 1,910 | 4,715 | 40.5\% | 925 | 4,535 | 20.4\% | 2,835 | 9,251 | 30.6\% | * | 1 | * |
| Delaware | 908 | 1,806 | 50.3\% | 208 | 1,124 | 18.5\% | 1,115 | 2,930 | 38.1\% | * | ** | * |
| District Of Columbia | 1,030 | 3,570 | 28.9\% | 372 | 1,743 | 21.3\% | 1,402 | 5,313 | 26.4\% | * | 1 | * |
| Florida | 8,907 | 21,731 | 41.0\% | 6,266 | 25,068 | 25.0\% | 15,173 | 46,799 | 32.4\% | 3 | 9 | 36.3\% |
| Georgia | 4,409 | 11,766 | 37.5\% | 2,726 | 13,549 | 20.1\% | 7,134 | 25,315 | 28.2\% | * | 10 | * |
| Guam | 14 | 104 | 13.0\% | 39 | 216 | 18.2\% | 53 | 319 | 16.5\% | 0 | 0 | NM |
| Hawaii | 401 | 460 | 87.2\% | 407 | 1,769 | 23.0\% | 808 | 2,228 | 36.3\% | 0 | ** | 0.0\% |
| Idaho | 441 | 2,077 | 21.2\% | 394 | 1,841 | 21.4\% | 834 | 3,918 | 21.3\% | * | ** | * |
| Illinois | 7,304 | 18,575 | 39.3\% | 4,150 | 16,179 | 25.7\% | 11,455 | 34,754 | 33.0\% | * | 8 | * |
| Indiana | 2,090 | 7,070 | 29.6\% | 1,472 | 7,691 | 19.1\% | 3,563 | 14,761 | 24.1\% | * | 1 | * |
| Iowa | 708 | 3,568 | 19.8\% | 717 | 3,927 | 18.3\% | 1,425 | 7,495 | 19.0\% | 0 | 2 | 0.0\% |
| Kansas | 1,389 | 3,368 | 41.2\% | 784 | 4,539 | 17.3\% | 2,173 | 7,907 | 27.5\% | * | 1 | * |
| Kentucky | 1,974 | 4,178 | 47.3\% | 875 | 4,854 | 18.0\% | 2,849 | 9,032 | 31.5\% | 0 | 1 | 0.0\% |
| Louisiana | 1,625 | 4,485 | 36.2\% | 984 | 6,206 | 15.9\% | 2,609 | 10,691 | 24.4\% | * | 1 | * |
| Maine | 484 | 1,667 | 29.0\% | 311 | 1,443 | 21.6\% | 795 | 3,110 | 25.6\% | 0 | ** | 0.0\% |
| Maryland | 2,980 | 9,331 | 31.9\% | 1,644 | 7,410 | 22.2\% | 4,624 | 16,742 | 27.6\% | * | 2 | * |
| Massachusetts | 5,569 | 13,883 | 40.1\% | 1,878 | 9,251 | 20.3\% | 7,446 | 23,134 | 32.2\% | * | 3 | * |
| Michigan | 4,510 | 12,605 | 35.8\% | 2,802 | 15,349 | 18.3\% | 7,313 | 27,955 | 26.2\% | * | 2 | * |
| Minnesota | 2,809 | 8,946 | 31.4\% | 1,552 | 6,715 | 23.1\% | 4,361 | 15,661 | 27.8\% | * | 4 | * |
| Mississippi | 748 | 2,476 | 30.2\% | 634 | 3,596 | 17.6\% | 1,382 | 6,071 | 22.8\% | * | 5 | * |
| Missouri | 2,739 | 7,002 | 39.1\% | 1,548 | 7,543 | 20.5\% | 4,286 | 14,546 | 29.5\% | * | 2 | * |
| Montana | 192 | 1,123 | 17.1\% | 180 | 1,097 | 16.4\% | 371 | 2,220 | 16.7\% | * | ** | * |
| Nebraska | 585 | 2,451 | 23.9\% | 381 | 2,946 | 12.9\% | 966 | 5,397 | 17.9\% | * | 2 | * |
| Nevada | 1,204 | 3,932 | 30.6\% | 807 | 3,397 | 23.7\% | 2,011 | 7,330 | 27.4\% | * | 3 | * |
| New Hampshire | 674 | 1,875 | 36.0\% | 319 | 1,567 | 20.4\% | 994 | 3,442 | 28.9\% | 0 | ** | 0.0\% |
| New Jersey | 4,577 | 14,163 | 32.3\% | 2,424 | 11,670 | 20.8\% | 7,001 | 25,833 | 27.1\% | * | 4 | * |
| New Mexico | 432 | 2,272 | 19.0\% | 561 | 2,304 | 24.3\% | 993 | 4,576 | 21.7\% | * | 19 | * |
| New York | 11,424 | 31,426 | 36.4\% | 6,072 | 26,430 | 23.0\% | 17,496 | 57,855 | 30.2\% | * | 8 | * |
| North Carolina | 3,471 | 11,062 | 31.4\% | 2,329 | 11,349 | 20.5\% | 5,800 | 22,411 | 25.9\% | * | 3 | * |
| North Dakota | 158 | 859 | 18.4\% | 152 | 866 | 17.6\% | 310 | 1,724 | 18.0\% | 0 | 1 | 0.0\% |
| Northern Mariana Islands | * | 13 | * | 5 | 77 | 6.1\% | * | 91 | * | 0 | 0 | NM |
| Ohio | 4,760 | 15,182 | 31.4\% | 2,979 | 16,401 | 18.2\% | 7,739 | 31,583 | 24.5\% | * | 8 | * |
| Oklahoma | 1,312 | 3,832 | 34.3\% | 912 | 4,477 | 20.4\% | 2,224 | 8,308 | 26.8\% | 0 | 1 | 0.0\% |
| Oregon | 1,495 | 5,331 | 28.0\% | 1,120 | 4,572 | 24.5\% | 2,615 | 9,903 | 26.4\% | * | 28 | * |
| Pennsylvania | 6,903 | 17,527 | 39.4\% | 3,270 | 15,819 | 20.7\% | 10,173 | 33,346 | 30.5\% | * | 4 | * |
| Puerto Rico | 423 | 1,560 | 27.1\% | 915 | 4,024 | 22.7\% | 1,338 | 5,584 | 24.0\% | 0 | 0 | NM |
| Rhode Island | 631 | 1,445 | 43.6\% | 313 | 1,240 | 25.3\% | 944 | 2,685 | 35.2\% | 0 | ** | 0.0\% |
| South Carolina | 1,500 | 4,365 | 34.4\% | 1,067 | 5,404 | 19.7\% | 2,567 | 9,769 | 26.3\% | * | 5 | * |
| South Dakota | 174 | 948 | 18.3\% | 228 | 1,060 | 21.5\% | 402 | 2,008 | 20.0\% | * | ** | * |
| Tennessee | 2,663 | 6,963 | 38.3\% | 1,745 | 8,577 | 20.3\% | 4,408 | 15,540 | 28.4\% | * | 4 | * |
| Texas | 11,522 | 34,114 | 33.8\% | 7,796 | 33,747 | 23.1\% | 19,317 | 67,861 | 28.5\% | * | 10 | * |
| Utah | 1,688 | 4,594 | 36.8\% | 870 | 3,618 | 24.0\% | 2,558 | 8,212 | 31.2\% | * | 13 | * |
| Vermont | 220 | 1,085 | 20.3\% | 112 | 664 | 16.8\% | 332 | 1,748 | 19.0\% | 0 | ** | 0.0\% |
| Virgin Islands | * | 38 | * | 12 | 134 | 8.9\% | * | 171 | * | 0 | 0 | NM |
| Virginia | 3,966 | 11,899 | 33.3\% | 2,161 | 9,925 | 21.8\% | 6,128 | 21,824 | 28.1\% | * | 9 | * |
| Washington | 3,165 | 10,490 | 30.2\% | 2,022 | 8,323 | 24.3\% | 5,188 | 18,813 | 27.6\% | * | 6 | * |
| West Virginia | 431 | 1,686 | 25.6\% | 309 | 1,855 | 16.7\% | 741 | 3,541 | 20.9\% | 0 | ** | 0.0\% |
| Wisconsin | 2,153 | 6,955 | 31.0\% | 1,561 | 6,482 | 24.1\% | 3,714 | 13,437 | 27.6\% | * | 8 | * |
| Wyoming | 98 | 712 | 13.8\% | 96 | 659 | 14.6\% | 195 | 1,371 | 14.2\% | 0 | 2 | 0.0\% |
| Total | 145,708 | 420,430 | 34.7\% | 88,084 | 406,944 | 21.6\% | 233,791 | 827,374 | 28.3\% | 66 | 219 | 30.3\% |

Source: Raw data from Local Number Portability Administrator (NeuStar, Inc.) and Numbering Resource Utilization/Forecast Reports filed with NeuStar, Inc. as of December 31, 2017.
Rollups performed by the Industry Analysis Division staff, Office of Economics and Analytics.
Note: Unlike in Tables 14-19, in this table the carrier type is that of the carrier porting the number. This is done to provide a measure of the likelihood that a number currently employed in either service will be ported.
${ }^{1}$ The vast majority of these numbers are ported because customers changed carriers.
${ }^{2}$ To protect carrier confidentiality, the Total columns were calculated as the sum of Wireline and Wirelss numbers only.
NM indicates that value is not meaningful.

* Indicates that the number has been withheld to protect carrier confidentiality.
** Indicates a number between 1 and 499.

Table 21
Numbers Assigned for Toll-Free Service ${ }^{1}$

| Year $^{2}$ | Working <br> Numbers | Miscellaneous <br> Numbers $^{3}$ | Assigned <br> Numbers | Available <br> Numbers |
| :---: | ---: | ---: | ---: | ---: |
| 1993 | $3,155,955$ | 731,438 | $3,887,393$ | $3,822,607$ |
| 1994 | $4,948,605$ | 763,235 | $5,711,840$ | $1,998,160$ |
| 1995 | $6,700,576$ | 286,487 | $6,987,063$ | 722,937 |
| 1996 | $9,527,982$ | 945,671 | $10,473,653$ | $5,216,347$ |
| 1997 | $12,980,714$ | 996,449 | $13,977,163$ | $1,712,837$ |
| 1998 | $16,200,883$ | 965,466 | $17,166,349$ | $6,503,651$ |
| 1999 | $19,677,001$ | $1,101,964$ | $20,778,965$ | $2,891,035$ |
| 2000 | $23,022,015$ | $1,178,096$ | $24,200,111$ | $7,449,889$ |
| 2001 | $23,453,029$ | $1,027,973$ | $24,481,002$ | $7,168,998$ |
| 2002 | $22,496,215$ | $1,051,232$ | $23,547,447$ | $8,102,553$ |
| 2003 | $21,108,662$ | 941,520 | $22,050,182$ | $9,599,818$ |
| 2004 | $22,159,440$ | $1,145,661$ | $23,305,101$ | $8,344,899$ |
| 2005 | $22,474,643$ | 957,835 | $23,432,478$ | $8,217,522$ |
| 2006 | $22,709,753$ | 756,808 | $23,466,561$ | $8,183,439$ |
| $2007^{4}$ | $23,902,113$ | 585,864 | $24,487,982$ | $7,322,018$ |
| $2008^{4}$ | $24,556,244$ | 773,164 | $25,329,408$ | $6,480,592$ |
| $2009^{4}$ | $26,035,821$ | 488,248 | $26,524,069$ | $5,285,931$ |
| $2010^{4}$ | $28,881,898$ | 456,394 | $29,338,292$ | $10,451,794$ |
| $2011^{4}$ | $30,985,584$ | 666,819 | $31,652,403$ | $8,137,690$ |
| $2012^{4}$ | $33,362,705$ | 536,522 | $33,899,227$ | $5,890,867$ |
| $2013^{4}$ | $36,532,431$ | 616,373 | $37,148,834$ | $10,621,260$ |
| $2014^{4}$ | $38,973,302$ | 677,531 | $39,650,833$ | $8,119,261$ |
| $2015^{4}$ | $39,952,307$ | 560,325 | $40,512,632$ | $7,257,462$ |
| $2016^{4}$ | $40,536,592$ | 716,063 | $41,252,655$ | $6,517,439$ |
| $2017^{4}$ | $40,985,379$ | 615,481 | $41,600,860$ | $14,149,234$ |
|  |  |  |  |  |

${ }^{1}$ Toll-free (800) service was initially offered by AT\&T in 1967. On May 1, 1993, procedures for routing toll- free calls were changed and 800 numbers were made "portable" so customers who switched service providers could retain their numbers. Due to the growth in demand for toll-free numbers, a new toll-free calling code, 888, was added in March 1996, which made it possible to assign about 8 million new toll-free numbers. A third toll-free calling code, 877, was added in April 1998; a fourth toll-free code, 866, was added in July 2000; a fifth toll-free code, 855, was added in October 2010; a sixth toll-free code, 844, was added in December 2013; and a seventh toll-free code, 833, was added in June 2017.
${ }^{2}$ As of December 31.
${ }^{3}$ Miscellaneous numbers include those in the $800,888,877,866,855,844$, and 833 service management systems maintained by Database Service Management, Inc., and categorized as reserved, assigned but not yet activated, recently disconnected, or suspended.
${ }^{4}$ On February 15,2008 , SMS800 freed up all unused numbers contained in certain blocks of numbers that were reserved for the provision of certain mobile radio telecommunications (pager) services within a specified geographic area. These numbers were in NPA 800 and had NXXs in the range of NX2 where ' N ' $=2$ through 9 and ' X ' $=0$ or 1 and the numbers ended in a state code. See,
http://www.sms800.com/PublicContent.aspx?Text=2008\&URL=Shared+Documents\%2FPubl ic\%2fNews\%2f2008\&Site=Public, visited Jul 1, 2011.

Table 22
Numbers Assigned for 800 Toll-Free Service ${ }^{1}$

| Year $^{2}$ | Working <br> Numbers | Miscellaneous <br> Numbers $^{3}$ | Assigned <br> Numbers | Available <br> Numbers |
| :---: | :---: | :---: | :---: | ---: |
| 2000 | $7,566,810$ | 132,887 | $7,699,697$ | 10,303 |
| 2001 | $7,370,055$ | 184,689 | $7,554,744$ | 155,256 |
| 2002 | $7,210,159$ | 203,268 | $7,413,427$ | 296,573 |
| 2003 | $7,089,752$ | 260,807 | $7,350,559$ | 359,441 |
| 2004 | $7,332,085$ | 208,368 | $7,540,453$ | 169,547 |
| 2005 | $7,317,165$ | 277,052 | $7,594,217$ | 115,783 |
| 2006 | $7,445,535$ | 207,672 | $7,653,207$ | 56,793 |
| $2007^{4}$ | $7,736,774$ | 123,226 | $7,860,000$ | 10,000 |
| $2008^{4}$ | $7,731,430$ | 128,570 | $7,860,000$ | 10,000 |
| $2009^{4}$ | $7,793,883$ | 66,117 | $7,860,000$ | 10,000 |
| $2010^{4}$ | $7,811,254$ | 58,832 | $7,870,086$ | 0 |
| $2011^{4}$ | $7,805,880$ | 64,213 | $7,870,093$ | 0 |
| $2012^{4}$ | $7,820,408$ | 49,685 | $7,870,093$ | 0 |
| $2013^{4}$ | $7,884,262$ | 95,738 | $7,980,000$ | 0 |
| $2014^{4}$ | $7,810,483$ | 59,611 | $7,870,094$ | 0 |
| $2015^{4}$ | $7,817,702$ | 52,392 | $7,870,094$ | 0 |
| $2016^{4}$ | $7,825,200$ | 44,894 | $7,870,094$ | 0 |
| $2017^{4}$ | $7,797,956$ | 72,138 | $7,870,094$ | 0 |

Note: Data from prior periods can be found in Table 18.4 of the February 2007 edition of the Trends in Telephone Service, which can be found at: https://www.fcc.gov/general/trends-telephone-service.
${ }^{1,2,3,4}$ See footnotes for Table 21.

Table 23
Numbers Assigned for 888 Toll-Free Service ${ }^{1}$

| Year $^{2}$ | Working <br> Numbers | Miscellaneous <br> Numbers | Assigned <br> Numbers | Available <br> Numbers |
| :--- | ---: | ---: | ---: | ---: |
| 2000 | $7,789,188$ | 177,328 | $7,966,516$ | 13,484 |
| 2001 | $7,452,071$ | 190,727 | $7,642,798$ | 337,202 |
| 2002 | $6,610,191$ | 154,015 | $6,764,206$ | $1,215,794$ |
| 2003 | $5,711,949$ | 250,662 | $5,962,611$ | $2,017,389$ |
| 2004 | $5,563,469$ | 384,320 | $5,947,789$ | $2,032,211$ |
| 2005 | $5,265,331$ | 196,817 | $5,462,148$ | $2,517,852$ |
| 2006 | $4,894,774$ | 154,764 | $5,049,538$ | $2,930,462$ |
| 2007 | $5,075,256$ | 134,928 | $5,210,184$ | $2,769,816$ |
| 2008 | $5,204,756$ | 195,377 | $5,400,133$ | $2,579,867$ |
| 2009 | $5,690,770$ | 117,469 | $5,808,239$ | $2,171,761$ |
| 2010 | $6,587,077$ | 78,444 | $6,665,521$ | $1,314,479$ |
| 2011 | $7,027,590$ | 207,448 | $7,235,038$ | 744,962 |
| 2012 | $7,753,648$ | 74,401 | $7,828,049$ | 151,951 |
| 2013 | $7,884,262$ | 95,738 | $7,980,000$ |  |
| 2014 | $7,802,363$ | 163,836 | $7,966,199$ | 0 |
| 2015 | $7,654,449$ | 110,251 | $7,764,700$ | 13,801 |
| 2016 | $7,460,689$ | 73,268 | $7,533,957$ | 215,300 |
| 2017 | $7,322,804$ | 187,513 | $7,510,317$ | 446,043 |

Note: Data from prior periods can be found in Table 18.4 of the February 2007 edition of the Trends in Telephone Service, which can be found at: https://www.fcc.gov/general/trends-telephone-service
${ }^{1,2,3}$ See footnotes for Table 21.

Table 24
Numbers Assigned for 877 Toll-Free Service ${ }^{1}$

| Year $^{2}$ | Working <br> Numbers | Miscellaneous <br> Numbers $^{3}$ | Assigned <br> Numbers | Available <br> Numbers |
| :--- | ---: | :---: | :---: | ---: |
| 2000 | $6,391,285$ | 719,333 | $7,110,618$ | 869,382 |
| 2001 | $6,214,863$ | 345,468 | $6,560,331$ | $1,419,669$ |
| 2002 | $5,448,276$ | 421,984 | $5,870,260$ | $2,109,740$ |
| 2003 | $4,536,366$ | 191,410 | $4,727,776$ | $3,252,224$ |
| 2004 | $4,551,486$ | 254,082 | $4,805,568$ | $3,174,432$ |
| 2005 | $4,424,365$ | 212,543 | $4,636,908$ | $3,343,092$ |
| 2006 | $4,158,082$ | 191,476 | $4,349,558$ | $3,630,442$ |
| 2007 | $4,236,995$ | 151,687 | $4,388,682$ | $3,591,318$ |
| 2008 | $4,126,424$ | 187,099 | $4,313,523$ | $3,666,477$ |
| 2009 | $4,942,751$ | 131,204 | $5,073,955$ | $2,906,045$ |
| 2010 | $6,538,482$ | 102,199 | $6,640,681$ | $1,339,319$ |
| 2011 | $6,863,007$ | 100,962 | $6,963,969$ | $1,016,031$ |
| 2012 | $7,378,618$ | 106,795 | $7,485,413$ | 494,587 |
| 2013 | $7,847,193$ | 132,807 | $7,980,000$ |  |
| 2014 | $7,772,785$ | 158,792 | $7,931,577$ | 0 |
| 2015 | $7,648,038$ | 104,868 | $7,752,906$ | 48,423 |
| 2016 | $7,530,028$ | 82,222 | $7,612,250$ | 227,094 |
| 2017 | $7,289,432$ | 80,434 | $7,369,866$ | 367,750 |

Note: Data from prior periods can be found in Table 18.4 of the February 2007 edition of the Trends in Telephone Service, which can be found at: https://www.fcc.gov/general/trends-telephone-service
${ }^{1,2,3}$ See footnotes for Table 21.

Table 25
Numbers Assigned for 866 Toll-Free Service ${ }^{1}$

| Year $^{2}$ | Working <br> Numbers | Miscellaneous <br> Numbers $^{3}$ | Assigned <br> Numbers | Available <br> Numbers |
| :--- | ---: | ---: | ---: | ---: |
| 2000 | $1,274,732$ | 148,548 | $1,423,280$ | $6,556,720$ |
| 2001 | $2,416,040$ | 307,089 | $2,723,129$ | $5,256,871$ |
| 2002 | $3,227,589$ | 271,965 | $3,499,554$ | $4,480,446$ |
| 2003 | $3,770,595$ | 238,641 | $4,009,236$ | $3,970,764$ |
| 2004 | $4,712,400$ | 298,891 | $5,011,291$ | $2,968,709$ |
| 2005 | $5,467,782$ | 271,423 | $5,739,205$ | $2,240,795$ |
| 2006 | $6,201,362$ | 212,896 | $6,414,258$ | $1,565,742$ |
| 2007 | $6,853,093$ | 176,023 | $7,029,116$ | 950,884 |
| 2008 | $7,493,634$ | 262,118 | $7,755,752$ | 244,248 |
| 2009 | $7,608,417$ | 173,458 | $7,781,875$ | 198,125 |
| 2010 | $7,651,341$ | 139,092 | $7,790,433$ | 189,567 |
| 2011 | $7,695,911$ | 185,229 | $7,881,140$ | 98,860 |
| 2012 | $7,725,373$ | 254,628 | $7,980,001$ | 0 |
| 2013 | $7,880,100$ | 99,900 | $7,980,000$ | 0 |
| 2014 | $7,779,412$ | 152,329 | $7,931,741$ | 48,259 |
| 2015 | $7,656,916$ | 126,120 | $7,783,036$ | 196,964 |
| 2016 | $7,444,279$ | 71,523 | $7,515,802$ | 464,198 |
| 2017 | $7,209,228$ | 96,735 | $7,305,963$ | 674,037 |

Note: Data from prior periods can be found in Table 18.4 of the February 2007 edition of the Trends in Telephone Service, which can be found at:
https://www.fcc.gov/general/trends-telephone-service
${ }^{1,2,3}$ See footnotes for Table 21.

Table 26
Numbers Assigned for 855 Toll-Free Service ${ }^{1}$

| Year $^{2}$ | Working <br> Numbers | Miscellaneous <br> Numbers $^{3}$ | Assigned <br> Numbers | Available <br> Numbers |
| :---: | ---: | ---: | ---: | ---: |
| 2010 | 293,744 | 77,827 | 371,571 | $7,608,429$ |
| 2011 | $1,593,196$ | 108,967 | $1,702,163$ | $6,277,837$ |
| 2012 | $2,684,658$ | 51,013 | $2,735,671$ | $5,244,329$ |
| 2013 | $5,040,432$ | 194,479 | $5,234,911$ | $2,745,089$ |
| 2014 | $5,821,720$ | 68,796 | $5,890,516$ | $2,089,484$ |
| 2015 | $5,894,229$ | 73,639 | $5,967,868$ | $2,012,132$ |
| 2016 | $5,884,346$ | 95,561 | $5,979,907$ | $2,000,093$ |
| 2017 | $5,761,972$ | 29,020 | $5,790,992$ | $2,189,008$ |

${ }^{1,2,3}$ See footnotes for Table 21.

Table 27
Numbers Assigned for 844 Toll-Free Service ${ }^{1}$

| Year ${ }^{2}$ | Working <br> Numbers | Miscellaneous <br> Numbers $^{3}$ | Assigned <br> Numbers | Available <br> Numbers |
| :---: | ---: | ---: | :---: | :---: |
| 2013 | 59,613 | 44,216 | 103,829 | $7,876,171$ |
| 2014 | $1,986,539$ | 74,167 | $2,060,706$ | $5,919,294$ |
| 2015 | $3,280,973$ | 93,055 | $3,374,028$ | $4,605,972$ |
| 2016 | $4,392,050$ | 348,595 | $4,740,645$ | $3,239,355$ |
| 2017 | $4,763,597$ | 80,296 | $4,843,893$ | $3,136,107$ |

${ }^{1,2,3}$ See footnotes for Table 21.

Table 28
Numbers Assigned for 833 Toll-Free Service ${ }^{1}$

| Year $^{2}$ | Working <br> Numbers | Miscellaneous <br> Numbers $^{3}$ | Assigned <br> Numbers | Available <br> Numbers |
| :---: | :---: | :---: | :---: | :---: |
| 2017 | 840,390 | 69,345 | 909,735 | $7,070,265$ |

${ }^{1,2,3}$ See footnotes for Table 21.

Table 29
Area Codes by State (1947-2017)

| Area Code | State / Jurisdiction | Area Code Opened | Area Code | State / Jurisdiction | Area Code Opened | Area Code | State / Jurisdiction | Area Code Opened | Area Code | State / Jurisdiction | Area Code Opened |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 205 | Alabama | Jan-47 | 762 | Georgia | May-06 | 228 | Mississippi | Sep-97 | 223 | Pennsylvania | Sep-17 |
| 251 | Alabama | Jun-01 | 770 | Georgia | Aug-95 | 601 | Mississippi | Jan-47 | 267 | Pennsylvania | Jul-99 |
| 256 | Alabama | Mar-98 | 912 | Georgia | Jan-54 | 662 | Mississippi | Apr-99 | 272 | Pennsylvania | Oct-13 |
| 334 | Alabama | Jan-95 | 671 | Guam | Jul-97 | 769 | Mississippi | Mar-05 | 412 | Pennsylvania | Jan-47 |
| 938 | Alabama | Jul-10 | 808 | Hawaii | Jan-57 | 314 | Missouri | Jan-47 | 484 | Pennsylvania | Jun-99 |
| 907 | Alaska | Jan-57 | 208 | Idaho | Jan-47 | 417 | Missouri | Jan-50 | 570 | Pennsylvania | Dec-98 |
| 684 | American Samoa | Oct-04 | 217 | Illinois | Jan-47 | 573 | Missouri | Jan-96 | 610 | Pennsylvania | Jan-94 |
| 480 | Arizona | Mar-99 | 224 | Illinois | Jan-02 | 636 | Missouri | May-99 | 717 | Pennsylvania | Jan-47 |
| 520 | Arizona | Mar-95 | 309 | Illinois | Jan-57 | 660 | Missouri | Oct-97 | 724 | Pennsylvania | Feb-98 |
| 602 | Arizona | Jan-47 | 312 | Illinois | Jan-47 | 816 | Missouri | Jan-47 | 814 | Pennsylvania | Jan-47 |
| 623 | Arizona | Mar-99 | 331 | Illinois | Oct-07 | 406 | Montana | Jan-47 | 878 | Pennsylvania | Aug-01 |
| 928 | Arizona | Jun-01 | 618 | Illinois | Jan-47 | 308 | Nebraska | Jan-55 | 787 | Puerto Rico | Mar-96 |
| 479 | Arkansas | Jan-02 | 630 | Illinois | Aug-96 | 402 | Nebraska | Jan-47 | 939 | Puerto Rico | Sep-01 |
| 501 | Arkansas | Jan-47 | 708 | Illinois | Nov-89 | 531 | Nebraska | Mar-11 | 401 | Rhode Island | Jan-47 |
| 870 | Arkansas | Apr-97 | 773 | Illinois | Oct-96 | 702 | Nevada | Jan-47 | 803 | South Carolina | Jan-47 |
| 209 | California | Jan-58 | 779 | Illinois | Mar-07 | 725 | Nevada | Jun-14 | 843 | South Carolina | Mar-98 |
| 213 | California | Jan-47 | 815 | Illinois | Jan-47 | 775 | Nevada | Dec-98 | 854 | South Carolina | Oct-15 |
| 310 | California | Nov-91 | 847 | Illinois | Jan-96 | 603 | New Hampshire | Jan-47 | 864 | South Carolina | Dec-95 |
| 323 | California | Jun-98 | 872 | Illinois | Nov-09 | 201 | New Jersey | Jan-47 | 605 | South Dakota | Jan-47 |
| 408 | California | Jan-59 | 219 | Indiana | Jan-47 | 551 | New Jersey | Dec-01 | 423 | Tennessee | Sep-95 |
| 415 | California | Jan-47 | 260 | Indiana | Jan-02 | 609 | New Jersey | Jan-57 | 615 | Tennessee | Jan-54 |
| 424 | California | Aug-06 | 317 | Indiana | Jan-47 | 732 | New Jersey | Jun-97 | 629 | Tennessee | Mar-15 |
| 442 | California | Nov-09 | 463 | Indiana | Nov-16 | 848 | New Jersey | Dec-01 | 731 | Tennessee | Feb-01 |
| 510 | California | Sep-91 | 574 | Indiana | Jan-02 | 856 | New Jersey | Jun-99 | 865 | Tennessee | Nov-99 |
| 530 | California | Nov-97 | 765 | Indiana | Feb-97 | 862 | New Jersey | Dec-01 | 901 | Tennessee | Jan-47 |
| 559 | California | Nov-98 | 812 | Indiana | Jan-47 | 908 | New Jersey | Nov-90 | 931 | Tennessee | Sep-97 |
| 562 | California | Jan-97 | 930 | Indiana | Mar-15 | 973 | New Jersey | Jun-97 | 210 | Texas | Nov-92 |
| 619 | California | Jan-82 | 319 | Iowa | Jan-47 | 505 | New Mexico | Jan-47 | 214 | Texas | Jan-47 |
| 626 | California | Jun-97 | 515 | Iowa | Jan-47 | 575 | New Mexico | Oct-07 | 254 | Texas | May-97 |
| 628 | California | Mar-15 | 563 | Iowa | Mar-01 | 212 | New York | Jan-47 | 281 | Texas | Nov-96 |
| 650 | California | Aug-97 | 641 | Iowa | Jul-00 | 315 | New York | Jan-47 | 325 | Texas | Apr-03 |
| 657 | California | Sep-08 | 712 | Iowa | Jan-47 | 332 | New York | Jun-17 | 346 | Texas | Jul-14 |
| 661 | California | Feb-99 | 316 | Kansas | Jan-47 | 347 | New York | Oct-99 | 361 | Texas | Feb-99 |
| 669 | California | Nov-12 | 620 | Kansas | Feb-01 | 516 | New York | Jan-51 | 409 | Texas | Nov-82 |
| 707 | California | Jan-59 | 785 | Kansas | Jul-97 | 518 | New York | Jan-47 | 430 | Texas | Feb-03 |
| 714 | California | Jan-51 | 913 | Kansas | Jan-47 | 585 | New York | Nov-01 | 432 | Texas | Apr-03 |
| 747 | California | May-09 | 270 | Kentucky | Apr-99 | 607 | New York | Jan-54 | 469 | Texas | Jul-99 |
| 760 | California | Mar-97 | 364 | Kentucky | Mar-14 | 631 | New York | Nov-99 | 512 | Texas | Jan-47 |
| 805 | California | Jan-57 | 502 | Kentucky | Jan-47 | 646 | New York | Jul-99 | 682 | Texas | Oct-00 |
| 818 | California | Jan-84 | 606 | Kentucky | Jan-55 | 680 | New York | Mar-17 | 713 | Texas | Jan-47 |
| 831 | California | Jul-98 | 859 | Kentucky | Apr-00 | 716 | New York | Jan-47 | 737 | Texas | Jul-13 |
| 858 | California | Jun-99 | 225 | Louisiana | Aug-98 | 718 | New York | Sep-84 | 806 | Texas | Jan-57 |
| 909 | California | Nov-92 | 318 | Louisiana | Jan-57 | 838 | New York | Sep-17 | 817 | Texas | Jan-53 |
| 916 | California | Jan-47 | 337 | Louisiana | Oct-99 | 845 | New York | Jun-00 | 830 | Texas | Jul-97 |
| 925 | California | Mar-98 | 504 | Louisiana | Jan-47 | 914 | New York | Jan-47 | 832 | Texas | Jan-99 |
| 949 | California | Apr-98 | 985 | Louisiana | Feb-01 | 917 | New York | Jan-92 | 903 | Texas | Nov-90 |
| 951 | California | Jul-04 | 207 | Maine | Jan-47 | 929 | New York | Apr-11 | 915 | Texas | Jan-47 |
| 303 | Colorado | Jan-47 | 240 | Maryland | Jun-97 | 934 | New York | Jul-16 | 936 | Texas | Feb-00 |
| 719 | Colorado | Mar-88 | 301 | Maryland | Jan-47 | 252 | North Carolina | Mar-98 | 940 | Texas | May-97 |
| 720 | Colorado | Jun-98 | 410 | Maryland | Oct-91 | 336 | North Carolina | Dec-97 | 956 | Texas | Jul-97 |
| 970 | Colorado | Apr-95 | 443 | Maryland | Jun-97 | 704 | North Carolina | Jan-47 | 972 | Texas | Sep-96 |
| 203 | Connecticut | Jan-47 | 667 | Maryland | Mar-12 | 743 | North Carolina | May-16 | 979 | Texas | Feb-00 |
| 475 | Connecticut | Dec-09 | 339 | Massachusetts | May-01 | 828 | North Carolina | Mar-98 | 385 | Utah | Mar-09 |
| 860 | Connecticut | Aug-95 | 351 | Massachusetts | May-01 | 910 | North Carolina | Nov-93 | 435 | Utah | Sep-97 |
| 959 | Connecticut | Aug-14 | 413 | Massachusetts | Jan-47 | 919 | North Carolina | Jan-54 | 801 | Utah | Jan-47 |
| 302 | Delaware | Jan-47 | 508 | Massachusetts | Jul-88 | 980 | North Carolina | Apr-01 | 802 | Vermont | Jan-47 |
| 202 | District Of Columbia | Jan-47 | 617 | Massachusetts | Jan-47 | 984 | North Carolina | Apr-12 | 340 | Virgin Islands | Jun-97 |
| 239 | Florida | Mar-02 | 774 | Massachusetts | May-01 | 701 | North Dakota | Jan-47 | 276 | Virginia | Sep-01 |
| 305 | Florida | Jan-47 | 781 | Massachusetts | Sep-97 | 670 | Northern Mariana Islands | Jul-97 | 434 | Virginia | Jun-01 |
| 321 | Florida | Nov-99 | 857 | Massachusetts | May-01 | 216 | Ohio | Jan-47 | 540 | Virginia | Jul-95 |
| 352 | Florida | Dec-95 | 978 | Massachusetts | Sep-97 | 220 | Ohio | Apr-15 | 571 | Virginia | Mar-00 |
| 386 | Florida | Feb-01 | 231 | Michigan | Jun-99 | 234 | Ohio | Oct-00 | 703 | Virginia | Jan-47 |
| 407 | Florida | Apr-88 | 248 | Michigan | May-97 | 330 | Ohio | Mar-96 | 757 | Virginia | Jul-96 |
| 561 | Florida | May-96 | 269 | Michigan | Jul-02 | 380 | Ohio | Feb-16 | 804 | Virginia | Jun-73 |
| 727 | Florida | Jul-98 | 313 | Michigan | Jan-47 | 419 | Ohio | Jan-47 | 206 | Washington | Jan-47 |
| 754 | Florida | Aug-01 | 517 | Michigan | Jan-47 | 440 | Ohio | Aug-97 | 253 | Washington | Apr-97 |
| 772 | Florida | Feb-02 | 586 | Michigan | Sep-01 | 513 | Ohio | Jan-47 | 360 | Washington | Jan-95 |
| 786 | Florida | Mar-98 | 616 | Michigan | Jan-47 | 567 | Ohio | Jan-02 | 425 | Washington | Apr-97 |
| 813 | Florida | Jan-53 | 734 | Michigan | Dec-97 | 614 | Ohio | Jan-47 | 509 | Washington | Jan-57 |
| 850 | Florida | Jun-97 | 810 | Michigan | Dec-93 | 740 | Ohio | Dec-97 | 564 | Washington | Aug-17 |
| 863 | Florida | Sep-99 | 906 | Michigan | Mar-61 | 937 | Ohio | Sep-96 | 304 | West Virginia | Jan-47 |
| 904 | Florida | Jul-65 | 947 | Michigan | Sep-02 | 405 | Oklahoma | Jan-47 | 681 | West Virginia | Mar-09 |
| 941 | Florida | May-95 | 989 | Michigan | Apr-01 | 539 | Oklahoma | Apr-11 | 262 | Wisconsin | Sep-99 |
| 954 | Florida | Sep-95 | 218 | Minnesota | Jan-47 | 580 | Oklahoma | Nov-97 | 414 | Wisconsin | Jan-47 |
| 229 | Georgia | Aug-00 | 320 | Minnesota | Mar-96 | 918 | Oklahoma | Jan-53 | 534 | Wisconsin | Aug-10 |
| 404 | Georgia | Jan-47 | 507 | Minnesota | Jan-54 | 458 | Oregon | Feb-10 | 608 | Wisconsin | Jan-55 |
| 470 | Georgia | Feb-10 | 612 | Minnesota | Jan-47 | 503 | Oregon | Jan-47 | 715 | Wisconsin | Jan-47 |
| 478 | Georgia | Aug-00 | 651 | Minnesota | Jul-98 | 541 | Oregon | Nov-95 | 920 | Wisconsin | Jul-97 |
| 678 | Georgia | Jan-98 | 763 | Minnesota | Feb-00 | 971 | Oregon | Oct-00 | 307 | Wyoming | Jan-47 |
| 706 | Georgia | May-92 | 952 | Minnesota | Feb-00 | 215 | Pennsylvania | Jan-47 |  |  |  |

[^12]Table 30
Area Code Assignments (2005-2017)

| State / Jurisdiction | Implementation Date | Previous Code | Added Code |
| :---: | :---: | :---: | :---: |
| Mississippi | March 2005 | 601 | 769 |
| Georgia | May 2006 | 706 | 762 |
| California | August 2006 | 310 | 424 |
| Illinois | March 2007 | 815 | 779 |
| Illinois | October 2007 | 630 | 331 |
| New Mexico | October 2007 | 505 | 575 |
| California | September 2008 | 714 | 657 |
| West Virginia | March 2009 | 304 | 681 |
| Utah | March 2009 | 801 | 385 |
| California | May 2009 | 818 | 747 |
| Illinois | November 2009 | 312 | 872 |
| California | November 2009 | 760 | 442 |
| Connecticut | December 2009 | 203 | 475 |
| Oregon | February 2010 | 541 | 458 |
| Georgia | February 2010 | 678 | 470 |
| Alabama | July 2010 | 256 | 938 |
| Wisconsin | August 2010 | 715 | 534 |
| Nebraska | March 2011 | 402 | 531 |
| Oklahoma | April 2011 | 918 | 539 |
| New York | April 2011 | 347 | 929 |
| Maryland | March 2012 | 443 | 667 |
| North Carolina | April 2012 | 919 | 984 |
| California | November 2012 | 408 | 669 |
| Texas | July 2013 | 512 | 737 |
| Kentucky | March 2014 | 270 | 364 |
| Nevada | June 2014 | 702 | 725 |
| Texas | July 2014 | 832 | 346 |
| Connecticut | August 2014 | 860 | 959 |
| Indiana | March 2015 | 812 | 930 |
| California | March 2015 | 415 | 628 |
| Tennessee | March 2015 | 615 | 629 |
| Ohio | April 2015 | 740 | 220 |
| South Carolina | October 2015 | 843 | 854 |
| Ohio | February 2016 | 614 | 380 |
| North Carolina | May 2016 | 336 | 743 |
| New York | July 2016 | 631 | 934 |
| Indiana | November 2016 | 317 | 463 |
| New York | March 2017 | 315 | 680 |
| New York | June 2017 | 212 | 332 |
| Washington | August 2017 | 360 | 564 |
| Idaho | September 2017 | 208 | 986 |
| New York | September 2017 | 518 | 838 |
| Pennsylvania | September 2017 | 717 | 223 |
| Texas | October 2017 | 210 | 726 |

Source: North American Numbering Plan Administrator (NANPA), which can be accessed at www.nanpa.com. Planning letters can be found at www.nanpa.com/planning_letters/index.html.

## Customer Response

Publication: Numbering Resource Utilization in the United States (Data as of December 2017)
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Completeness of data
Text clarity
Completeness of text

| Excellent | Good |
| :---: | :---: |
| $\left(\right.$ _ $\left.^{\prime}\right)$ | $\left(\_\right)$ |
| $\left(\_\right)$ | $\left(\_\right)$ |
| $\left(\_\right)$ | $\left(\_\right)$ |
| $\left(\_\right)$ | $\left(\_\right)$ |
| $\left(\_\right)$ | $\left(\_\right)$ |
| $\left(\_\right)$ | $\left(\_\right)$ |

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(_)
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[^0]:    ${ }^{1}$ The previous edition of this report with data as of June 30, 2010, was released in April 2013.
    ${ }^{2}$ See Numbering Resource Optimization, CC Docket No. 99-200, Report and Order and Further Notice of Proposed Rulemaking, 15 FCC Rcd 7574 (2000) (First 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) (Second NRO Order); Numbering Resource Optimization, CC Docket Nos. 99-200, 96-98, 95116, 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) (Third NRO Order); Numbering Resource Optimization, CC Docket Nos. 99-200, 96-98, 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, 18 FCC Rcd 12472 (2003) (Fourth NRO Order).
    ${ }^{3}$ LEC is an abbreviation for Local Exchange Carrier.
    ${ }^{4}$ VoIP is an abbreviation for Voice over Internet Protocol.

[^1]:    ${ }^{5}$ 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, 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 limited to the United States and its overseas territories.
    ${ }^{6}$ A database containing information about each area code is available at https://www.nationalnanpa.com/nanp1/npa report.csv.
    ${ }^{7}$ First NRO Order, 15 FCC Rcd at 7603, para. 67. At the time the data for this report was collected, NeuStar, Inc. was the NANPA. On October 16, 2018, the FCC selected Somos as the current NANPA and PA. FCC Selects Somos as North American Numbering Plan Administrator \& Pooling Administrator Under One-Year Bridge Contracts, News Release (rel. Oct. 16, 2018) available at https://docs.fcc.gov/public/attachments/DOC-354567A1.pdf (FCC NANPA/Pooling News Release).
    ${ }^{8}$ FCC Form 502 and most other FCC forms can be downloaded via http://www.fcc.gov/formpage.html,
    ${ }^{9}$ That is, a ten-thousands-block is the block of 10,000 telephone numbers that have the same area code and the same NXX.
    ${ }^{10}$ Pooling for wireline and wireless carriers started in November 2002. For a discussion of this requirement, see Fourth NRO Order, 18 FCC Rcd at 12474-77, paras. 5-14.

[^2]:    ${ }^{11}$ At the time the data for this report was collected, NeuStar, Inc. was the PA. As noted above, on October 16, 2018, the FCC selected Somos as the NANPA and PA. See FCC NANPA/Pooling News Release.
    ${ }^{12}$ See 47 U.S.C. § 153(37).
    ${ }^{13}$ Carriers classified themselves in a variety of ways on their NRUF forms. Except for interexchange carriers, each carrier type was aggregated into one of five categories for the purposes of this report. Interexchange carriers reported data for area codes 500 and 900, which are summarized in Table 10 of this report. Therefore, there was no need to classify interexchange carriers as one of the five carrier types listed above. Also, carriers may provide multiple types of services but report using a single OCN. This may cause a problem because carriers must indicate only their primary line of business on the NRUF form. Only small carriers seem to do this, so the effects of this misclassification should be minor.

[^3]:    ${ }^{16}$ This means that sometimes more than one carrier can report utilization data for the same thousands-block (or NXX). The NRUF form contains separate sections for reporting utilization data for numbers received from another carrier and numbers received directly from the NANPA. Some carriers that receive numbers only from other carriers use the incorrect section of the form, however, so within the database it can appear that more than one carrier reported data for the same block of numbers.
    ${ }^{17}$ The NANPA lists the codes that have been issued on its website at: http://www.nanpa.com/reports/reports_cocodes_assign.html.
    ${ }^{18}$ See First 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.
    ${ }^{19}$ See First NRO 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 or disconnect service.
    ${ }^{21}$ A rate center is a geographic area used to determine distances and prices for local and long-distance calls.
    ${ }^{22}$ 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 Fourth NRO Order, 18 FCC Rcd at 12473, para. 2.
    ${ }^{23}$ Thousands-block pooling now exists in some portion of every state. See National Pooling Administrator, Reports - Block Report by Region available at https://www.nationalpooling.com/reports/block-by-region/index.htm. See generally WC Docket No. 07-118 (orders adopting rules on number pooling).
    ${ }^{24}$ 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 No. 99-200, Order, 17 FCC Rcd 7347 (2002).
    ${ }^{25}$ See Fourth NRO Order, 18 FCC Rcd at 12473, para 1; 68 F.R, 43009, July 21, 2003. Thus, the Commission required wireless telephone carriers to participate in thousands-block number pooling (starting on August 20, 2003) somewhat before they were required to begin deploying local number portability (by November 24, 2003).

[^5]:    ${ }^{26}$ Calculating the utilization rate had whole NXXs been issued was a 4-step process: 1) the number of thousands-blocks that a carrier held in a rate center was determined; 2) that number was rounded up to the next ten, which is the number of thousands-blocks the carrier would have received if it had received whole NXXs; 3) the number in step 2 was multiplied by 1,000 to calculate the total quantity of telephone numbers the carrier would have had in the rate center; and 4) the number of telephone numbers that the carrier actually has in that rate center is then subtracted from the quantity calculated in step 3.
    ${ }^{27}$ The NANPA's assignment information can be found online: http://www.nanpa.com/reports/reports cocodes assign.html. The analysis in Table 11 examines only those codes that NANPA marked "assigned" (i.e., this study does not examine those codes marked "protected", "reserved", "unassignable", or "vacant"). The LERG is published monthly by Telcordia Technologies $\mathrm{d} / \mathrm{b} / \mathrm{a}$ iconectiv.
    ${ }^{28}$ During permissive dialing, a phone number may be called by using either the old or the new NPA.
    ${ }^{29}$ The points in Chart 1 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 thousands-blocks 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 thousands-blocks per rate center). 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 thousandsblocks 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.

[^6]:    ${ }^{30}$ The current Local Number Portability Administrator is Telcordia Technologies $\mathrm{d} / \mathrm{b} / \mathrm{a}$ iconectiv. Telcordia Technologies, Inc. Petition to Reform Amendment 57 and to Order a Competitive Bidding Process for Number Portability Administration, et al., WC Docket Nos. 07149, 09-109, 95-116, Order, 31 FCC Rcd 8406 (2016).
    ${ }^{31}$ When a customer using a ported number discontinues service entirely, the ported number also goes back to the original carrier.
    ${ }^{32}$ Area code splits can cause a number ported from Carrier A to Carrier B to appear to be ported from Carrier A to Carrier B at a later date than it actually occurred, as the database record must be updated to reflect the new area code. When this happens, the old porting record disappears from the database.
    ${ }^{33}$ Numbering Policies for Modern Communications; IP-Enabled Services; Telephone Number Requirements for IP-Enabled Services Providers; Telephone Number Portability; Developing a Unified Intercarrier Compensation Regime; Connect America Fund; Numbering Resource Optimization; Petition of Vonage Holdings Corp. for Limited Waiver of Section $52.15(f)(2)(i)$ of the Commission's Rules Regarding Access to Numbering Resources, WC Docket Nos. 13-97, 04-36, 07-243, 10-90, CC Docket Nos. 95-116, 01-92, Order, 28 FCC Rcd 8889, para. 1 (WCB 2013).

[^7]:    ${ }^{34}$ According to NRUF rules, a number that is ported to another carrier is classified as assigned. To avoid double counting, the recipient of the ported number does not report ported numbers in NRUF. See 47 C.F.R. § 52.15 (f)(1)(v).
    ${ }^{35}$ If carriers assign more than one number to a mobile wireless unit, this method will slightly overestimate the number of wireless units.
    ${ }^{36}$ 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.

[^8]:    ${ }^{37}$ 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 many thousands-blocks in a single rate center.
    ${ }^{38}$ Carriers assigning numbers to unified messaging services are instructed 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 those numbers had been assigned to end users. This may explain why some carriers reported dozens of NXX in a single rate center yet classified all those numbers as intermediate rather than assigned.

[^9]:    Source: Numbering Resource Utilization/Forecast Reports data filed with NeuStar, Inc. as of March 16, 2018 ( $98.7 \%$ 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. Where an RBOC has acquired a carrier with CLEC services in the RBOC's operating region, the numbering resources of the acquired CLEC that are in the RBOC's operating region are counted as incumbent LEC resources. Where the acquired CLEC provides services outside of the acquirer's operating region, the numbering resources are treated as CLEC resources.

[^10]:    Source: Numbering Resource Utilization/Forecast Reports data filed with NeuStar, Inc. as of March 16, 2018.
    ${ }^{1}$ 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.

[^11]:    Source: Numbering Resource Utilization/Forecast Reports data filed with NeuStar, Inc. as of March 16, 2018. Area code information is from NeuStar, Inc.'s website.
    Note: The Commission has found "that aggregated data (such as each carrier's NPA wide utilization rate and number of NXXs assigned)" are not confidential. Numbering Resource Optimization, Report and Order and Further Notice of Proposed Rulemaking, CC Docket No. 99-200, 15 FCC Rcd 7574, 7607-08, para. 79 (2000).

[^12]:    Source: North American Numbering Plan Administrator

