Before the
Federal Communications Commission
Washington, D.C. 20554

In the Matter of	)	
	)	
Inquiry Concerning Deployment of Advanced Telecommunications Capability to All Americans in a Reasonable and Timely Fashion	)))	GN Docket No. 20-269

FOURTEENTH BROADBAND DEPLOYMENT REPORT

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By the Commission: Commissioner Carr issuing a statement; Commissioners Rosenworcel and Starks dissenting and issuing separate statements.

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I. INTRODUCTION

1. Section 706 of the Telecommunications Act of 1996 charges the Commission with "encourag[ing] the deployment on a reasonable and timely basis of advanced telecommunications capability to all Americans" by removing barriers to infrastructure investment and by promoting competition in the telecommunications market.[1] Over the last four years, the Commission's top priority has been closing the digital divide, in recognition that high-speed broadband and the digital opportunity it brings are increasingly essential to innovation, economic opportunity, healthcare, and civic engagement in today's modern society. With many jobs, schools, and healthcare services shifting to virtual environments in the wake of the ongoing COVID-19 pandemic, the need to deliver broadband connectivity across America has never been greater. Moreover, Americans in rural and remote regions continue to rely on broadband to stay connected to services and opportunities that are physically in distant locations. The Commission continues to take steps to narrow the digital divide by promoting competition in the telecommunications marketplace and removing barriers to infrastructure investment, and the data reveal that the Commission's efforts have been successful at delivering broadband to more Americans than ever before.

2. Fixed and mobile providers continue to make impressive gains in bringing high-speed broadband service to all Americans. Since the Commission's last *Broadband Deployment Report*, the number of Americans living in areas without access to at least 25/3 Mbps (the Commission's current benchmark) has dropped from more than 18.1 million Americans at the end of 2018 to fewer than 14.5 million Americans at the end of 2019, a decrease of more than 20%.[2] Moreover, more than three-quarters of those in newly served areas, nearly 3.7 million, are located in rural areas, bringing the number of rural Americans in areas served by at least 25/3 Mbps to nearly 83%.[3] Since 2016, the number of Americans living in rural areas lacking access to 25/3 Mbps service has fallen more than 46%. As a result, the rural–urban divide is rapidly closing; the gap between the percentage of urban Americans and the percentage of rural Americans with access to 25/3 Mbps fixed broadband has been nearly halved, falling from 30 points at the end of 2016 to just 16 points at the end of 2019.[4]

3. With regard to mobile broadband, since 2018, the number of Americans lacking access to 4G LTE mobile broadband with a median speed of 10/3 Mbps was reduced by more than 57%, including a nearly 54% decrease among rural Americans.[5] As of the end of 2019, the vast majority of Americans, 94% had access to *both* 25/3 Mbps fixed broadband service *and* mobile broadband service with a median

[1] 47 U.S.C. § 1302(a).

[2] *See infra* Fig. 1. When we provide broadband speed figures, we present both the download and upload speeds. In the case of 25/3 Mbps, for example, we refer to broadband service that has a download speed of 25 Mbps and an upload speed of 3 Mbps.

[3] *Id.*

[4] *See infra* Fig. 1 (comparing the difference in the percent of Americans in urban versus rural areas with access to 25/3 Mbps as of December 31, 2019 and December 31, 2016).

[5] *See infra* Fig. 2b. Consistent with the Commission's conclusion in the *2020 Report*, we consider both fixed and mobile services as capable of meeting the definition of "advanced telecommunications capability." *Inquiry Concerning the Deployment of Advanced Telecommunications Capability to All Americans in a Reasonable and Timely Fashion*, GN Docket No. 19-285, 2020 Broadband Deployment Report, 35 FCC Rcd 8986, 8989, para. 7 (2020) (*2020 Report*). For the reasons set forth below, we will continue to evaluate mobile deployment at speeds of 5/1 Mbps and 10/3 Mbps in this Report.

speed of 10/3 Mbps.[6] Also as of the end of 2019, mobile providers now provide access to 5G capability to approximately 60% of Americans.[7] These strides in mobile broadband deployment were fueled by more than $29 billion of capital expenditures in 2019 (roughly 18% of *global* mobile capital spending), the largest mobile broadband investment since 2015.[8]

4. Based on this compelling evidence, we find, for a third consecutive year, that advanced telecommunications capability is being deployed on a reasonable and timely basis. With this Report, the Commission fulfills the Congressional directive to report each year on the progress made in deploying broadband to all Americans.[9] Despite this finding, our work to close the digital divide is not complete. The Commission will continue its efforts to ensure that all Americans have the ability to access broadband.

II. BACKGROUND

5. Section 706(b) of the Telecommunications Act of 1996 requires the Commission annually to "initiate a notice of inquiry concerning the availability of advanced telecommunications capability to all Americans (including, in particular, elementary and secondary schools and classrooms) . . . ."[10] In conducting this inquiry, the Commission must "determine whether advanced telecommunications capability is being deployed to all Americans in a reasonable and timely fashion." If that determination is negative, the Commission "shall take immediate action to accelerate deployment of such capability by removing barriers to infrastructure investment and by promoting competition in the telecommunications market."[11]

6. On August 19, 2020, the Commission released the *Sixteenth Broadband Deployment Report Notice of Inquiry* (*Notice*), seeking comment on how a range of factors may affect the deployment and availability of advanced telecommunications capability, and on whether and how to incorporate those factors in our section 706(b) analysis for both fixed and mobile services.[12]

III. EVALUATING DEPLOYMENT OF ADVANCED TELECOMMUNICATIONS CAPABILITY TO ALL AMERICANS IN A REASONABLE AND TIMELY FASHION

7. In this Report, we holistically evaluate progress in the deployment of advanced telecommunications capability and whether that progress is occurring in a reasonable and timely fashion. We do so consistent with the Commission's evaluation in past releases of the *Broadband Deployment Report* and the Commission's proposal in the *Notice*.[13] This Report continues to evaluate deployment of

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[6] *See infra* Fig. 3b.

[7] CTIA, 2020 Annual Survey Highlights (Aug. 25, 2020), https://www.ctia.org/news/report-2020-annual-survey-highlights (*CTIA 2020 Annual Survey Highlights*); CTIA Comments at 9. We are not aware of a comprehensive estimate of total fixed and mobile broadband network spending for calendar year 2019. The results, however, speak for themselves, as the increased deployment discussed in this Report would not be possible without substantial investment.

[8] *CTIA Annual Survey Highlights*; CTIA Comments at 6-13.

[9] 47 U.S.C. § 1302(b).

[10] *Id.*

[11] *Id.*

[12] *See generally Inquiry Concerning Deployment of Advanced Telecommunications Capability to All Americans in a Reasonable and Timely Fashion*, GN Docket No. 20-269, Sixteenth Broadband Deployment Report Notice of Inquiry, 35 FCC Rcd 8947 (2020) (*Notice*).

[13] *2020 Report*, 35 FCC Rcd at 8989, paras. 7-8; *Notice*, 35 FCC Rcd at 8949, para. 6; *Inquiry Concerning Deployment of Advanced Telecommunications Capability to All Americans in a Reasonable and Timely Fashion*, GN Docket No. 18-238, 2019 Broadband Deployment Report, 34 FCC Rcd 3857, 3859-60, para. 8 (*2019 Report*).

fixed and mobile services over a rolling five-year time period (now 2015-2019), using the four categories presented in the *2019* and *2020 Reports*: (1) the number of Americans with access to fixed services; (2) the number with access to mobile 4G LTE services; (3) the number with access to both fixed *and* mobile 4G LTE services; and (4) the number with access to at least one of either fixed *or* mobile 4G LTE services.[14]

8. We find substantial support in the record for continuing our use of a progress-based approach.[15] As the Commission has previously explained:

> [A] progress-based approach . . . is most consistent with the language of section 706—and enables the Commission to determine whether advanced telecommunications capability "is being deployed" in the manner that section 706 requires. . . . Congress intended that the Commission evaluate the current state of deployment to all Americans; it did not ask us to determine whether each and every American is served at this moment.[16]

Examining the progress of deployment therefore best effectuates Congress's charge to the Commission in section 706.

9. We agree with commenters that we must continue our efforts to close the digital divide and extend the reach of broadband deployment to all Americans.[17] Section 706(a) mandates that we continue to promote deployment of advanced telecommunications capability to all Americans,[18] and even though "current data continue to demonstrate significant ongoing progress,"[19] it remains the case that rural and Tribal areas continue to lag behind in broadband deployment.[20] We therefore remain committed to closing the digital divide and ensuring that all Americans can share in the benefits of access to advanced telecommunications capability, and we will continue to monitor progress toward that goal. We agree with NTCA that the Commission's high-cost universal service programs have enabled "increased deployment and faster speeds" for Americans living in rural and hard-to-serve parts of the country.[21] We also agree with commenters that urge the Commission to continue its work to expand access to spectrum to facilitate broadband deployment in the future.[22] And we agree with ADTRAN that continuing to work with "state and local governments through the [Broadband Deployment Advisory Committee (BDAC)] process to help accelerate broadband deployment" is vital to increase broadband investment and adoption across America.[23]

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[14] *2020 Report*, 35 FCC Rcd at 8989, para. 7.

[15] *See, e.g.*, ADTRAN, Inc. (ADTRAN) Comments at 4; CTIA Comments at 5; Free State Foundation Comments at 4; NCTA – The Internet & Television Association (NCTA) Comments at 3; Wireless Internet Service Providers Association (WISPA) Comments at 7.

[16] 2019 *Report*, 34 FCC Rcd at 3859-60, para. 8; *see also 2020 Report*, 35 FCC Rcd at 8969, para. 8.

[17] *See, e.g.*, Benton Institute for Broadband & Society (Benton Institute), Common Cause, Electronic Frontier Foundation, Greenlining Institute, MediaJustice, National Hispanic Media Coalition, New America's Open Technology Institute, Public Knowledge, UnidosUS Comments (Benton Institute et al. Comments) at 1, 3-5; Broadband Connects America Comments at 6-7, 11; Free State Foundation Comments at 17-19; INCOMPAS Comments at 7-8; Common Cause, Next Century Cities, and Public Knowledge (Common Cause et al.) Comments at 3, 31.

[18] 47 U.S.C. § 1302(a).

[19] USTelecom – The Broadband Association (USTelecom) Comments at 4.

[20] Common Cause et al. Comments at 26; Utilities Technology Council Reply at 2.

[21] NTCA–The Rural Broadband Association (NTCA) Comments at 7-8.

[22] *See* CTIA Comments at 32; Free State Foundation Comments at 17-18; Mile One Broadband Consortium (Mile One Broadband) Comments at 3; Common Cause et al. Comments at 28.

[23] ADTRAN Comments at 15.

A. Defining Advanced Telecommunications Capability

10. As in the *2020 Report*, we continue the Commission's practice of considering both fixed and mobile services as capable of independently meeting the definition of "advanced telecommunications capability" under section 706.[24] This finding is consistent with the language of the statute, which defines advanced telecommunications capability "without regard to any transmission media or technology."[25] Because both services "enable[] users to originate and receive high-quality voice, data, graphics, and video telecommunications,"[26] each service independently meets the section 706 definition.[27] Despite both services' meeting the definition of advanced telecommunications capability, we find, consistent with the Commission's findings in past reports, that fixed and mobile services are not full substitutes.[28] The weight of the record suggests that users generally treat fixed and mobile services as complements rather than substitutes. Consumers tend to subscribe to both services when they have the ability to do so, which suggests that, even though there is some overlap in functionality, both services continue to offer distinct capabilities for consumers.[29] For example, mobile broadband services can be used while outside of the home.[30] Fixed broadband services, as noted by commenters, tend to offer higher speeds[31] with greater reliability[32] and higher usage allowances than mobile services,[33] which can make fixed broadband services more suitable for, among other things, large file transfers,[34] long-form video,[35] desktop school work,[36] and sharing the same connection with multiple devices and users within the same home.[37] Commenters also

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[24] *2020 Report*, 35 FCC Rcd at 8990, para. 10.

[25] 47 U.S.C. § 1302(d)(1).

[26] *Id*.

[27] *2020 Report,* 35 FCC Rcd at 8990, para. 10; *2019 Report*, 34 FCC Rcd at 3860-61, para. 10.

[28] *See 2020 Report*, 35 FCC Rcd at 8990-91, paras. 11-12; *2019 Report*, 34 FCC Rcd at 3860-61, para. 11; *Inquiry Concerning Deployment of Advanced Telecommunications Capability to All Americans in a Reasonable and Timely Fashion*, GN Docket No. 17-199, 2018 Broadband Deployment Report, 33 FCC Rcd 1660, 1666-67, para. 18 (*2018 Report*).

[29] New America's Open Technology Institute and Access Now (Open Technology Institute & Access Now) Comments at 12, 13. CTIA notes that many people subscribe to "mobile only." CTIA Comments at 29-30. However, other commenters note that "mobile only" households tend to be lower income or in areas that lack fixed advanced telecommunications capability. *See* Broadband Connects America Comments at 9; Common Cause et al. Comments at 3, 21-23; Free Press Comments at 19-20; Open Technology Institute & Access Now Comments at 13; Open Technology Institute & Access Now Reply at 11-12.

[30] NTCA Comments at 3; Open Technology Institute & Access Now Comments at 12; Utilities Technology Council Reply at 7-8.

[31] ADTRAN Comments at 7; Common Cause et al. Comments at 3, 21; INCOMPAS Comments at 11; NTCA Comments at 2-3; Open Technology Institute & Access Now Comments at 12; Open Technology Institute & Access Now Reply at 12-13.

[32] ADTRAN Comments at 7;Common Cause et al. Comments at 21; INCOMPAS Comments at 11; Open Technology Institute & Access Now Comments at 12; Communications Workers of America (CWA) Reply at 4-5; Open Technology Institute & Access Now Reply at 12-13.

[33] ADTRAN Comments at 7; Broadband Connects America Comments at 10; Common Cause et al. Comments at 21; INCOMPAS Comments at 11; Open Technology Institute & Access Now Comments at 13-14; CWA Reply at 4-5; Open Technology Institute & Access Now Reply at 10, 12-13.

[34] Open Technology Institute & Access Now Comments at 14.

[35] INCOMPAS Comments at 11.

[36] Broadband Connects America Comments at 10; Open Technology Institute & Access Now Comments at 3, 14; WISPA Comments at iii.

[37] Open Technology Institute & Access Now Comments at 14; NTCA Reply at 4.

note that mobile users tend to rely on fixed broadband via WiFi networks when available.[38]

11. While the record provides substantial evidence that fixed and mobile services are not substitutes, we recognize that consumers can substitute fixed and mobile broadband for some functionalities, such as when accessing certain services and applications like e-mail or social media.[39] One commenter, Free State Foundation, suggests that we should treat mobile and fixed services as substitutes because both are technologically capable of 25/3 Mbps speeds.[40] The record demonstrates, however, that each service enables different situational uses: fixed broadband generally delivers faster speeds, permits higher consumption at a lower price,[41] and has far higher data caps,[42] whereas mobile broadband offers the convenience of Internet access outside the home. Finally, we are optimistic that increased deployment of 5G may allow mobile services to serve as an alternative to fixed services.[43] But we agree with those commenters that indicate that any such assessment is premature, as providers are still rolling out 5G out as a commercial service,[44] and we do not know for certain whether consumers will treat mobile 5G as a substitute for fixed services.[45] Accordingly, we find, as before, that fixed broadband and mobile wireless broadband services are not substitutes in all cases.[46] We continue to assess advanced telecommunications capability by analyzing mobile and fixed services both separately and together for a more complete understanding of whether these services are being deployed to all Americans in a reasonable and timely fashion.[47]

12. *Performance Benchmarks for Fixed Service.* We find that the current speed benchmark of 25/3 Mbps remains an appropriate measure by which to assess whether a fixed service is providing advanced telecommunications capability. We conclude that fixed services with speeds of 25/3 Mbps

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[38] Common Cause et al. Comments at 22; Open Technology Institute & Access Now Comments at 12-13; Open Technology Institute & Access Now Reply at 10. Among the 27% of adults surveyed who indicated that they do not subscribe to home fixed broadband, 45% stated that a smartphone does everything they need. Monica Anderson, *Mobile Technology and Home Broadband 2019* (Jun. 13, 2019), https://www.pewresearch.org/internet/2019/06/13/mobile-technology-and-home-broadband-2019/#fn-22521-1.

[39] Free State Foundation Comments at 4, 14-15; *see also 2020 Broadband Deployment Report*, 35 FCC Rcd at 8990, para. 11.

[40] Free State Foundation Comments at 4, 13-15. Free State Foundation also suggests that fixed and mobile broadband do not need to be full substitutes to be considered substitutes under this report. We decline to adopt such an approach. Further, while Free State Foundation argues that we should consider these services to be substitutes so long as the "threat of substitution places a ceiling on industry prices," *id*. at 15, Free State Foundation provides no evidence of a nexus showing mobile service pricing constraining fixed service pricing and vice versa. Nor does Free State Foundation's argument address why people tend to subscribe to both services when they have the ability to do so. *See* Open Technology Institute & Access Now Comments at 12, 13.

[41] ADTRAN Comments at 7; Common Cause et al. Comments at 3, 21; INCOMPAS Comments at 11; NTCA Comments at 2-3; Open Technology Institute & Access Now Comments at 12; CWA Reply at 4; Open Technology Institute & Access Now Reply at 12-13.

[42] ADTRAN Comments at 7; Broadband Connects America Comments at 10; Common Cause et al. Comments at 21, 25-26; INCOMPAS Comments at 11-12; National Rural Electric Cooperative Association (NRECA) Comments at 5-6; NTCA Comments at 3; Open Technology Institute & Access Now Comments at 12-14; CWA Reply at 4; Open Technology Institute & Access Now Reply at 10, 12-13.

[43] Free State Foundation Comments at 10, 15-16.

[44] ADTRAN Comments at 7; Common Cause et al. Comments at 23; INCOMPAS Comments at 11-12; Open Technology Institute & Access Now Comments at 14-15; WISPA Comments at 5.

[45] NTCA Comments at 3-4.

[46] *2020 Broadband Deployment Report*, 35 FCC Rcd at 8990-91, paras. 11-12.

[47] 47 U.S.C. § 1302(b).

continue to meet the statutory definition of advanced telecommunications capability; that is, such services "enable[] users to originate and receive high-quality voice, data, graphics, and video telecommunications."[48] This finding adopts the proposal in the *Notice*, and the record reflects significant support for maintaining the current fixed 25/3 Mbps speed benchmark.[49] We agree with ACA Connects that "broadband service at this speed tier continues to provide users the ability 'to originate and receive high-quality voice, data, graphics, and video telecommunications', and that maintaining the same benchmark across multiple years' reports makes it easier to measure deployment progress over time."[50]

13. Some commenters suggest that we should increase our speed benchmark, given that more Americans have access to faster broadband speeds,[51] and because of the increased demand for data-intensive services such as telework platforms, distance learning, telehealth, and video conferencing.[52] Commenters also suggest adopting symmetrical download/upload speed benchmarks.[53] We decline these suggestions for various reasons. First, the definition of advanced telecommunications capability in section 706 does not suggest that "advanced" necessarily means the highest quality service possible.[54] As ADTRAN acknowledges, "the benchmark ought to be tied to the statutory definition of 'advanced telecommunications capability,' rather than being set as an 'audacious goal' as some have advocated."[55] Second, many commenters provide convincing evidence that the recent increase in usage of videoconferencing and telework platforms has not generally necessitated increased bandwidth or higher broadband speeds.[56] As NCTA states, "even as the COVID crisis has caused an exponential increase in the use of video conferencing applications for work, school, and telehealth, it remains the case that a 25/3 connection generally is sufficient to enable such applications."[57] We agree with WISPA that "[b]y

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[48] 47 U.S.C. § 1302(d)(1); *see also* NCTA Reply at 2 (explaining that "the statutory definition of advanced telecommunications capability is a functional one").

[49] *See* ACA Connects Comments at 2-3; Free State Foundation Comments at 3, 10-11; NCTA Comments at 2; USTelecom Comments at 2, 11; WISPA Comments at 6; USTelecom Reply at 5-6; WISPA Reply at 5-7.

[50] ACA Connects Comments at 2.

[51] *See, e.g.*, Fiber Broadband Association Comments at 2; INCOMPAS Comments at 6-7; NRECA Comments at 9-10; Common Cause et al. Comments at 9.

[52] *See, e.g.*, ADTRAN Comments at 6-7; Broadband Connects America Comments at 7-8, 11; Open Technology Institute & Access Now Comments at 10-11; NRECA Comments at 9-10; Common Cause et al. Comments at 7; Carroll County Broadband Committee (Carroll County Broadband) Reply at 3; Massachusetts Department of Telecommunications and Cable (Massachusetts Department) Reply at 7-8; Open Technology Institute & Access Now Reply at 5-6; NTCA Reply at 5; Common Cause et al. Reply at 6-7; Utilities Technology Council Reply at 5-6.

[53] *See, e.g.*, Broadband Connects America Comments at 11; Fiber Broadband Association Comments at 18; Open Technology Institute & Access Now Comments at 11; Common Cause et al. Comments at 2, 7, 9; Carroll County Broadband Reply at 3.

[54] 47 U.S.C. § 1302(d)(1); *see* Free State Foundation Comments at 11-12 ("A drastic or 'audacious' re-definition of the agency's broadband benchmarks . . . has no basis in the plain language of Section 706's mandate, and it appears contrary to the statute's directive that the Commission make its deployment determination based on a reasonableness standard.").

[55] ADTRAN Comments at 6-7.

[56] *See, e.g.*, NCTA Comments at 2; USTelecom Comments at 11-12; Free State Foundation Comments at 11; WISPA Comments at 6-7 (arguing that "[n]othing has changed in the intervening few months [since the *2020 Report*] to disturb [its] well-supported finding" that the current speed benchmark of 25/3 Mbps remains an appropriate measure by which to assess whether fixed service is providing advanced telecommunications capability).

[57] NCTA Comments at 2; *see also* USTelecom Comments at 12; Free State Foundation Comments at 11; WISPA Comments at 6 ("[T]he speed required for the applications that most broadband consumers use has not changed substantially . . . and actual subscriptions have not yet consistently surpassed the benchmark level.").

maintaining consistent criteria, the Commission is better able to track changes in service availability and performance over time"[58] and a consistent benchmark is particularly valuable given the country's changed circumstances due to the pandemic. Fourth, while some commenters argue for adopting symmetrical speed benchmarks, whereby the download speed and the upload speed are the same in any given benchmark, they largely make unsupported assertions about the significance of higher upload speeds, and do not provide convincing, data-driven reasoning demonstrating the need for making this change.[59]

14. Notably, while 25/3 Mbps remains our fixed speed benchmark for purposes of conducting our inquiry under section 706, we continue the Commission's practice of showing progress of fixed services at multiple speed thresholds, including three speeds above the benchmark (50/5 Mbps, 100/10 Mbps, and 250/25 Mbps), to enable the Commission and the public to monitor consumer usage trends and marketplace developments. Commenters support this approach.[60] We agree with Free State Foundation and NCTA that we should assess a wider range of speed tiers,[61] but we find, consistent with the *2020 Report* and long-standing Commission precedent, that a "single fixed speed benchmark provides a useful and administrable way of conducting our inquiry."[62] Furthermore, we maintain that a single fixed benchmark allows us to more easily understand consumer usage trends and marketplace developments and to track progress over time. We therefore evaluate progress using a variety of speed tier metrics and categories across technologies.[63]

15. *Performance Benchmarks for Mobile Service.* Consistent with past Commission practice, we evaluate deployment of advanced telecommunications capability for mobile services using multiple metrics instead of relying on a single benchmark.[64] As the Commission concluded in previous reports, we find that a single benchmark is unreliable in the mobile wireless context due to the inherent variability in

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[58] WISPA Comments at 7; *see also* ACA Connects Comments at 2-3; NCTA Comments at 2.

[59] *See, e.g.*, Broadband Connects America Comments at 7; Open Technology Institute & Access Now Comments at 11; Common Cause et al. Comments at 9. One commenter advocating for a 100/100 Mbps benchmark cited an increase in upstream consumption as a reason to adopt the change, but did not point to data which show that the current benchmarks are insufficient. *See* Common Cause et al. Reply at 6.

[60] *See, e.g.*, ADTRAN Comments at 5-6; NCTA Comments at 2.

[61] Free State Foundation Comments at 10-11; NCTA Comments at 3.

[62] *See 2020 Report*, 35 FCC Rcd at 8993, para. 15; *2019 Report*, 34 FCC Rcd at 3863, para. 15; *2018 Report*, 33 FCC Rcd at 1669, para. 25; *see also Inquiry Concerning the Deployment of Advanced Telecommunications Capability to All Americans in a Reasonable and Timely Fashion, and Possible Steps to Accelerate Such Deployment Pursuant to Section 706 of the Telecommunications Act of 1996, as Amended by the Broadband Data Improvement Act*, GN Docket No. 15-191, 2016 Broadband Deployment Report, 31 FCC Rcd 699, 707, para. 19 (*2016 Report*); *Inquiry Concerning the Deployment of Advanced Telecommunications Capability to All Americans in a Reasonable and Timely Fashion, and Possible Steps to Accelerate Such Deployment Pursuant to Section 706 of the Telecommunications Act of 1996, as Amended by the Broadband Data Improvement Act*, GN Docket No. 14-126, 2015 Broadband Progress Report and Notice of Inquiry on Immediate Action to Accelerate Deployment, 30 FCC Rcd 1375, 1391, para. 23 (2015) (*2015 Report*).

[63] While some commenters urge the Commission to adopt a benchmark based on an alternative metric from speed, the proffered approaches fail to provide a methodology or reliable data sources to implement their suggestions. *See, e.g.*, CTIA Comments at 26-27 ("Given that many factors affect the consumer's wireless experience, the Commission should take a holistic view of deployment progress, factoring in such data points as investment and cell site growth—and not define 'progress' by speed only."); Massachusetts Department Reply at 10 ("[T]he FCC [should] incorporate affordability in its Section 706 analysis."); Common Cause et al. Comments at 15 ("Such a metric should include actual speed data, latency, data caps, denials of service, and network vulnerability and resilience."); Utilities Technology Council Reply at 6-7 ("[N]umerous comments support including latency, affordability and reliability as additional metrics for assessing broadband deployment in recognition that 'quality of service is a key component of access to broadband.' UTC supports these comments.").

[64] *2020 Report*, 35 FCC Rcd at 8993, para. 16; *2019 Report*, 34 FCC Rcd at 3863-64, paras. 16-17; *2018 Report*, 33 FCC Rcd at 1672-74, paras. 30-34.

the performance characteristics of mobile service, both geographically and temporally.[65] Accordingly, we first analyze provider-reported 4G LTE coverage based on the Commission's Form 477 data, where service providers claim a minimum advertised speed of 5/1 Mbps.[66] We do not assert that 5/1 Mbps is a mobile advanced telecommunications capability benchmark; rather, we use the 5/1 Mbps minimum advertised speed as a check to ensure that the 4G LTE deployed to an area has sufficient backhaul and other capabilities to offer 4G LTE in a manner consistent with being an advanced telecommunications capability.[67] Second, in areas where providers claim to provide 4G LTE with a minimum 5/1 Mbps advertised speed, we supplement provider-reported data with Ookla speed-test data, which identify areas showing median speed tests of at least 10/3 Mbps. This supplemental approach attempts to address certain limitations of the current FCC Form 477 mobile data, while helping the Commission understand the extent to which American consumers today are receiving speeds higher than 5/1 Mbps.[68] By continuing the Commission's prior approach, we also can more readily assess progress over time.[69]

16. We find, therefore, that retaining the current approach of using multiple metrics is appropriate for this Report at this time.[70] We agree with CTIA that mobile wireless service capability

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[65] *2020 Report*, 35 FCC Rcd at 8993, para. 16; *2019 Report*, 34 FCC Rcd at 3863, para. 16; *2018 Report*, 33 FCC Rcd at 1672, para. 34.

[66] The FCC Form 477 Instructions require each provider to indicate their minimum advertised speeds and where users should expect to receive those advertised speeds. For convenience, we refer to minimum advertised speeds throughout this Report. *Form 477 Local Telephone Competition and Broadband Reporting Instructions* at 25 (May 21, 2020), https://us-fcc.app.box.com/v/Form477Instructions. The Commission has recognized certain limitations associated with its Form 477 data collection and amended that collection to require, among other things, that mobile providers report 5G technology deployments and submit broadband and subscriber data at the census-tract level. *Establishing the Digital Opportunity Data Collection; Modernizing the FCC Form 477 Data Program*, WC Docket Nos. 19-195, 11-10, Report and Order and Second Further Notice of Proposed Rulemaking, 34 FCC Rcd 7505, 7524, para. 44, 7530, para. 58 (2019) (*Digital Opportunity Data Collection First Report and Order and Second Further Notice*). The Commission also sought comment on steps to obtain more accurate and reliable mobile broadband deployment data, including the collection of crowdsourced and other on-the-ground data. *Id.* at 7549-59, paras. 112-34.

[67] *2020 Report*, 35 FCC Rcd at 8994, para. 16; *2019 Report*, 34 FCC Rcd at 3863, para. 16; *see also* 47 U.S.C. § 1302(d) (defining advanced telecommunications capability as capable of enabling "users to originate and receive high-quality voice, data, graphics, and video telecommunications"). In previous reports, the Commission has concluded that 4G LTE at 5/1 Mbps is a starting point for the analysis that enables consumer use consistent with the requirements of 47 U.S.C. § 1302, and speeds of 5/1 Mbps or higher "are accepted by industry as consistent with an LTE network." *2020 Report*, 35 FCC Rcd at 8994, para. 16 n. 56; *2019 Report*, 34 FCC Rcd at 3863, para. 16; *2018 Report*, 33 FCC Rcd at 1672-73, paras. 31-32.

[68] *2020 Report*, 35 FCC Rcd at 8994, para. 16; *2019 Report*, 34 FCC Rcd at 3864, para. 16; *2018 Report*, 33 FCC Rcd at 1672-73, paras. 31-32; *see also Digital Opportunity Data Collection First Report and Order and Second Further Notice*, 34 FCC Rcd at 7549-59, paras. 112-134 (seeking comment regarding how to obtain and verify more accurate mobile coverage data).

[69] *2020 Report*, 35 FCC Rcd at 8994, para. 16; *2019 Report*, 34 FCC Rcd at 3864, para. 16 ("Overall, retaining this methodology allows consistent metrics by which we can evaluate whether mobile advanced telecommunications capability is improving for American consumers."); Free State Foundation Comments at 3.

[70] 47 U.S.C. § 1302(d)(1); *2020 Report*, 35 FCC Rcd at 8994, para. 17; *2019 Report*, 34 FCC Rcd at 3863-64, paras. 16-17. The record does not justify altering the Commission's approach of analyzing both FCC Form 477 data and Ookla data at speeds of 5/1 Mbps and 10/3 Mbps, respectively. *See* Free State Foundation Comments at 3, 10-11 (agreeing with the 5/1 Mbps, 10/3 Mbps approach although also advocating for a wider range of speed tiers to be analyzed, if available); CTIA Comments at 27 (arguing that the Commission should adopt a more "holistic approach" that assesses factors related to consumers wireless experience beyond speeds and coverage data); *see also 2019 Report*, 34 FCC Rcd at 3864, para. 17 (rejecting CTIA's alternative methodology proposal for assessing the mobile experience).

should be assessed holistically, given the inherent variability of wireless service.[71] We also have begun collecting 5G New Radio (5G-NR) deployment data to ensure that both the Commission and consumers have an accurate account of 5G deployment.[72] No commenter opposed this approach.

17. *Other Benchmarks.* We decline suggestions of some commenters to adopt additional benchmarks. While some commenters suggest adoption of additional benchmarks, such as latency,[73] they do not offer a reliable and sufficiently comprehensive data source for such analysis.[74] We therefore decline, as the Commission has previously,[75] to incorporate latency into our section 706 analysis. Additionally, we decline the requests of some commenters to consider affordability.[76] For purposes of this Report, we agree with ADTRAN and others that such a metric falls outside the scope of our section 706 inquiry.[77] We reiterate the Commission's finding in the *2019 Report* that "[w]hile factors such as data allowances or pricing may affect consumers' use of advanced telecommunications capabilities or influence decisions concerning the purchase of these services in the first instance, such considerations do not affect the underlying determination of whether advanced telecommunications capability has been deployed and made available to customers in a given area."[78] Notably, commenters that support including non-performance metrics fail to cite reliable, comprehensive data sources that we could use, or offer sound methodologies for incorporating these metrics into the section 706 inquiry.[79]

B. Demographic Information

18. Section 706(c) directs the Commission to compile a list of geographical areas that are not served by any provider of advanced telecommunications capability and, to the extent that data from the Census Bureau are available, to determine, for each unserved area, the population, the population density, and the average per capita income.[80] Once again, we include a demographic data analysis below in Section IV.C., and show the availability of advanced telecommunications capability on a county-by-county basis with demographic information in Appendix D.[81]

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[71] *See* CTIA Comments at 27.

[72] *Digital Opportunity Data Collection First Report and Order and Second Further Notice*, 34 FCC Rcd at 7524, para. 44; *see also Establishing the Digital Opportunity Data Collection*; *Modernizing the FCC Form 477 Data Program*, WC Docket Nos. 19-195, 11-10, Second Report and Order and Third Further Notice of Proposed Rulemaking, 35 FCC Rcd 7460, 7474, para. 33 (2020) (*Digital Opportunity Data Collection Second Report and Order and Third Further Notice*).

[73] *See, e.g.*, Common Cause et al. Comments at 15; Utilities Technology Council Reply at 6-7.

[74] The Commission also reached this conclusion based on the records in the three most recent reports. *See 2020 Report*, 35 FCC Rcd at 8995, para. 18; *2019 Report*, 34 FCC Rcd at 3865, para. 19; *2018 Report*, 33 FCC Rcd at 1674-75, para. 36.

[75] *2020 Report*, 35 FCC Rcd at 8995, para. 18; *2019 Report*, 34 FCC Rcd at 3865, para. 19; *2018 Report*, 33 FCC Rcd at 1674-75, para. 36.

[76] *See, e.g.*, Broadband Connects America Comments at 3; Benton Institute et al. Comments at 4; Open Technology Institute Comments at 16; Common Cause et al. Comments at 14, 33; Massachusetts Department Reply at 9; Open Technology Institute & Access Now Reply at 20-21; Utilities Technology Council Reply at 6-7.

[77] ADTRAN Comments at 4; ADTRAN Reply at 3-4 (explaining that affordability is "not part of Congress' specified focus in Section 706"); *see also* USTelecom Reply at 4-5; WISPA Reply at 8-9.

[78] *2019 Report*, 34 FCC Rcd at 3866, para. 19 (quoting the Commission's finding in the *2018 Report*); *2018 Report*, 33 FCC Rcd at 1675, para. 39. The Commission reached the same conclusion in both the *2019 Report* and the *2020 Report*. *2019 Report*, 34 FCC Rcd at 3866, para. 19; *2020 Report*, 35 FCC Rcd at 8995, para. 19.

[79] *See, e.g.*, Broadband Connects America Comments at 3; Benton Institute et al. Comments at 4; Open Technology Institute Comments at 16; Common Cause et al. Comments at 14, 33; Massachusetts Department Reply at 9; Open Technology Institute & Access Now Reply at 20-21; Utilities Technology Council Reply at 6-7.

[80] 47 U.S.C. § 1302(c).

C. Schools and Classrooms

19. Section 706(b) also specifies that our annual inquiry concerning the availability of advanced telecommunications capability to all Americans must include "elementary and secondary schools and classrooms."[82] As in the *2020 Report*, we continue to assess the current state of deployment in elementary and secondary schools in Section IV.F. below, using a long-term goal for broadband connectivity to schools of 1 Gbps per 1,000 students and staff, respectively. In the *2020 Report*, the Commission found that 99% of school districts met its short-term goal of 100 Mbps per 1,000 students and staff and therefore no longer consider such goal to be a meaningful measure of the progress in deployment of advanced telecommunications services.[83]

D. Tribal Lands

20. We find that Tribal lands[84] continue to face significant obstacles to broadband deployment, as the Commission has in the past. As reflected in the three most recent *Reports*, deployment of advanced telecommunications capability on certain Tribal lands, particularly rural Tribal lands, lags behind deployment in other, non-Tribal areas.[85] Many of these lands are located disproportionately in rural areas, which tend to be less densely populated than rural non-Tribal areas. The remote, isolated nature of these areas, combined with challenging terrain and lower incomes, increase the cost of network deployment and entry, thereby reducing the profitability of providing service.[86] Due to

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[81] *See infra* Appx. 4; *see also* Benton Institute et al. Comments at 3-5, 16-17 (both advocating for more extensive use of demographic information in our analysis).

[82] 47 U.S.C. § 1302(b).

[83] *2020 Report*, 35 FCC Rcd at 9017-18, para. 52.

[84] A census tract is designated Tribal lands if more than 50% of the land area is Tribal land. For purposes of the analysis of Tribal lands in this Report, we use the definition that was used in the *2018 Commercial Marketplace Report* and in the Commission's *Broadband Deployment Reports* since 2012. *See 2018 Communications Marketplace Report*, 33 FCC Rcd at 12652, para. 187 & n.598; *Eighth Broadband Progress Report,* 27 FCC Rcd 10342, 10414-15 (2012). We acknowledge that the Commission has used other definitions of Tribal lands in different contexts. *See, e.g.*, *Transforming the 2.5 GHz Band*, Report and Order, 34 FCC Rcd 5446, 5465-66, paras. 51-55 (2019), *Bridging the Digital Divide for Low-Income Consumers*, Fourth Report and Order, Order on Reconsideration, Memorandum Opinion and Order, Notice of Proposed Rulemaking, and Notice of Inquiry, 32 FCC Rcd 10475 (2017); *Connect America Fund et al.*, Report and Order, Further Notice of Proposed Rulemaking, and Order on Reconsideration, 33 FCC Rcd 11893, 11910-11, para. 55 n.122 (2018); *Establishing a 5G Fund for Rural America*, GN Docket No. 20-32, Report and Order, FCC 20-150, at 16-21, paras. 40-44 (Oct. 29, 2020). However, for purposes of this Report, we maintain the Commission's definition as previously employed.

Our assessment of Tribal lands in this Report begins by examining the census blocks that have been coded by the Census Bureau as federally recognized Tribal lands for the 2010 Census. These areas fall into one of the following American Indian Area/Alaska Native Area/Hawaiian Home Land Class categories: (1) Joint Use Areas; (2) legal federally recognized American Indian area consisting of reservation and associated off-reservation trust land; (3) legal federally recognized American Indian area consisting of reservation only; (4) legal federally recognized American Indian area consisting of off-reservation trust land only; (5) statistical American Indian area defined for a federally recognized Tribe that does not have reservation or off-reservation trust land, specifically a Tribal designated statistical area (TDSA) or Oklahoma Tribal Statistical Area (OTSA); (6) Alaskan Native village statistical area; and (7) Hawaiian Home Lands established by the Hawaiian Homes Commission Act of 1921. We exclude state recognized areas from the analysis of Tribal lands. We note that the Tribal Statistical Areas are largely in Oklahoma, but they also include areas in California, New York, and Washington. To assess adoption rates on Tribal lands we designate a census tract as Tribal lands if more than 50% of the land area is Tribal land.

[85] *2020 Report*, 35 FCC Rcd at 8996-97, paras. 22-23; *2019 Report*, 34 FCC Rcd at 3866, para. 22, 3883-85, paras. 44-46, Figs. 10 and 11; *2018 Report*, 33 FCC Rcd at 1681-86, paras. 50-57.

[86] *See* FCC, *Report on Broadband Deployment in Indian Country, Pursuant to the Repack Airwaves Yielding Better Access for Users of Modern Services Act of 2018*, at 2, 19, submitted to the Senate Committee on Commerce,

(continued….)

the challenges in accounting for all types of Tribal lands and obstacles to infrastructure investment, we agree that continued work is needed to spur broadband deployment in these areas.[87] Despite these challenges, our data reveals continuing progress in deployment, and we present our measurement of deployment data on Tribal lands below in Section IV.D.

IV. BROADBAND DEPLOYMENT AND AVAILABILITY

A. Data Sources and Methodologies

21. We continue the Commission's practice of relying primarily on the FCC Form 477 deployment data to evaluate consumers' broadband options for fixed terrestrial and mobile services. Notwithstanding its flaws, we agree with commenters that the FCC Form 477 data remains the most reliable and comprehensive data to assess broadband availability to complete our section 706 inquiry,[88] a conclusion the Commission has consistently reached in the past.[89] The FCC Form 477 deployment data are also available to the public, which increases the transparency of our analysis and permits the public to independently assess our broadband service deployment data.[90] The Commission has collected FCC Form 477 deployment data since 2014, and thus, these data have provided a consistent yardstick against which to measure year-over-year progress of broadband deployment.[91] In August 2019, the Commission adopted new requirements for broadband mapping as part of its Digital Opportunity Data Collection proceeding for collecting granular, precise coverage data.[92] However, the Broadband DATA Act

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Science, and Transportation; House of Representatives Committee on Energy and Commerce (May 1, 2019), https://docs.fcc.gov/public/attachments/DOC-357269A1.pdf; *Rural Digital Opportunity Fund; Connect America Fund*, WC Docket Nos. 10-90, 19-126, Report and Order, 35 FCC Rcd 686 (2020) (*Rural Digital Opportunity Fund Order*) (creating a Rural Digital Opportunity Fund to target support to areas that lack access to 25/3 Mbps broadband service, including prioritizing bids to serve Tribal lands).

[87] *See*, *e.g.*, Benton Institute et al. Comments at 26 (access in Tribal lands still lags behind non-Tribal lands; Commission needs more granular data about service coverage, affordability, etc. to accurately measure the extent of this disparity); Open Technology Institute & Access Now Comments at 22-23 (Commission does not currently have a formal process to obtain Tribal input on the accuracy of FCC Form 477 data, must start collecting accurate data on broadband in Tribal lands); Utilities Technology Council Reply at 2 (28% of Americans in Tribal areas still lack access to 25/3 Mbps speeds).

[88] *See* ADTRAN Comments at 9-10; Free State Foundation Comments at 13; USTelecom Comments at 15; WISPA Comments at 8; ADTRAN Reply at 4-5; USTelecom Reply at 8-9; WISPA Reply at 9.

[89] *See 2020 Report,* 35 FCC Rcd at 8997-98, para. 24; *2019 Report*, 34 FCC Rcd at 3868, para. 25; *2018 Communications Marketplace Report* 34 FCC Rcd at 12651, para. 184. For this Report, we exclude Barrier Communications Corporation's deployment data because the Commission proposed a $163,912 forfeiture penalty based upon a finding that the company vastly overstated its data, failed to provide accurate FCC Form 477 data, and failed to provide accurate responses to the Enforcement Bureau's Letters of Inquiry. *Barrier Communications Corporation d/b/a BarrierFree*, Notice of Apparent Liability for Forfeiture, 35 FCC Rcd 10186, 10186-87, para. 2 (2020).

[90] FCC, *Form 477 Resources*, https://www.fcc.gov/economics-analytics/industry-analysis-division/form-477-resources (last visited Oct. 27, 2020). All FCC Form 477 data used in this Report have been certified as accurate by the filers. We note that the Report's analysis may understate or overstate consumers' options for services to the extent that broadband providers fail to report data or misreport data. *See* FCC, *Explanation of Broadband Deployment Data*, https://www.fcc.gov/general/explanation-broadband-deployment-data (last visited Nov. 19, 2020) (describing quality and consistency checks performed on providers' submitted data and explaining any adjustments made to the FCC Form 477 data as filed).

[91] *See* Dr. Timothy J. Tardiff Reply Comments at 3 (asserting that FCC Form 477 data provide a consistent set of measures to allow parties to see the evolution of broadband across time and geography).

[92] *See Digital Opportunity Data Collection Second Order and Third Further Notice*, 35 FCC Rcd at 7461, para. 1; *See generally, Digital Opportunity Data Collection Report and Order and Second Further Notice*, 34 FCC Rcd 7505.

prohibits the Commission from relying on the Universal Service Administrative Company—the administrator of the Universal Service Fund and the entity the Commission intended to carry out various administrative responsibilities in connection with the new broadband maps. As a result, the Commission must wait for Congress to appropriate necessary funding to develop these new maps.[93]

22. We measure fixed deployment data at the census block level. FCC Form 477 filers report a list of census blocks in which they provide access to broadband.[94] For purposes of the analysis of access to advanced telecommunications capability in this Report, a census block is classified as served if the FCC Form 477 data indicate that service is available in the census block, even if not to every location.[95] Therefore, it is not necessarily the case that every household, housing unit, or person will have coverage from a given service provider in a census block that this analysis indicates is served.[96] Thus, as the Commission has previously explained, this analysis could overstate the coverage experienced by some consumers, especially in large or irregularly-shaped census blocks.[97] However, these data nonetheless remain the best and most granular data available for our analysis at this point in time. Moreover, we find that using a consistent unit of measurement (the census block) is an effective tool for evaluating how deployment is progressing over time.

23. We measure mobile network coverage based on a set of maps that contain information on deployment at a detailed geographic level.[98] In conducting this analysis, we use the actual-area

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[93] Broadband Deployment Accuracy and Technological Availability Act (Broadband DATA Act), Pub. L. No. 116-130, 134 Stat. 228 (2020) (codified at 47 U.S.C. §§ 641-646).

[94] *See Modernizing the FCC Form 477 Data Program*, WC Docket No. 11-10, Report and Order, 28 FCC Rcd 9887, 9902, para. 32 (2013).

[95] The Commission's instructions for completing FCC Form 477 state: "For purposes of this form, fixed *broadband connections* are *available* in a census block if the provider does, or could, within a service interval that is typical for that type of connection—that is, without an extraordinary commitment of resources—provision two-way data transmission to and from the Internet with *advertised speeds* exceeding 200 kbps in at least one direction to *end-user premises* in the census block." FCC, FCC Form 477 Local Telephone Competition and Broadband Report Instructions, at 17 (2016), https://us-fcc.box.com/v/Form477InstThruJune19 (2018 FCC Form 477 Instructions) (emphasis in original) (pertinent to the data on which this Report is based); FCC, *FCC Form 477 Local Telephone Competition and Broadband Report Instructions*, at 18 (2019), https://us-fcc.app.box.com/v/Form477Instructions (2019 FCC Form 477 Instructions) (current version).

[96] A household "consists of all the people who occupy a housing unit. A house, an apartment or other group of rooms, or a single room, is regarded as a housing unit when it is occupied or intended for occupancy as separate living quarters; that is, when the occupants do not live with any other persons in the structure and there is direct access from the outside or through a common hall." U.S. Census Bureau, *Subject Definitions* (Aug. 25, 2018), https://www.census.gov/programs-surveys/cps/technical-documentation/subject-definitions.html#household. Commission staff developed population estimates for 2011-19 by updating the 2010 census block population estimates. These estimates are based upon annual U.S. Census mid-year county (or county-equivalent) level population and housing unit estimates for the 50 states, the District of Columbia, and Puerto Rico. These data are used in conjunction with U.S. Census Bureau TIGER data to indicate new roads, that is, new housing development, to distribute population amongst the census blocks comprising each county (or county-equivalent). FCC, *Staff Block Estimates*, https://www.fcc.gov/reports-research/data/staff-block-estimates (last visited Oct. 27, 2020).

[97] *See, e.g.*, *2020 Report*, 35 FCC Rcd at 8998, para. 26; *2019 Report*, 34 FCC Rcd at 3869, para. 25 n.92.

[98] Currently, FCC Form 477 collects broadband deployment data from facilities-based providers of fixed and mobile broadband service. *See* 47 CFR § 1.7001(b). The FCC Form 477 reporting requirements exclude providers of terrestrial wireless "hot spot" services, like local-area Wi-Fi or Wi-Fi within public places, but include facilities-based network providers that provide resale of mobile services. Facilities-based providers of mobile service submit polygons in a shapefile format representing geographic coverage nationwide (including U.S. territories) for each transmission technology (e.g., 5G-NR, 4G LTE, CDMA-based, GSM-based), indicating the geographic areas in which users should expect to receive the minimum upload and download speeds advertised by the service provider for the deployed technologies. 2019 FCC Form 477 Instructions.

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methodology, which analyzes FCC Form 477 mobile broadband data on a sub-census-block level and calculates the percentage of each census block covered by each service provider by technology. Unlike the centroid methodology,[99] in which a particular entire census block is either considered to be covered or not, the actual-area methodology estimates the area of the census block that is covered.[100] However, because we currently do not know the distribution of the population at the sub-census-block level, we must approximate the population covered by each technology. To do this, we assume, for purposes of this Report, that the population of a census block is uniformly distributed such that the fraction of the population covered in a block is proportional to the fraction of the actual area covered. We then sum the estimated covered population across blocks to estimate the total covered population within the United States. Likewise, we assume that the fraction of the road miles covered in a block is proportional to the fraction of the actual area covered.[101] Our analysis of deployment for both fixed and mobile 4G LTE services in Section IV.B uses 2010 census block population data that Commission staff has updated to account for population growth and economic development.

24. As the Commission has repeatedly stated, having accurate and reliable broadband deployment data is critical not only to the Commission, but also to other federal policymakers, state policymakers, and consumers.[102] We observe that, while the current FCC Form 477 deployment data are an improvement over the deployment data previously available on a national scale, questions have arisen in various contexts over the past several years regarding the accuracy of coverage reported by FCC Form 477 deployment data.[103] Indeed, some commenters offer criticism of the FCC Form 477 data,[104] as well

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The scope and nature of the FCC Form 477 data on mobile services coverage is an improvement over earlier data sources in certain key respects, such as the uniformity of data reporting. *See Inquiry Concerning the Deployment of Advanced Telecommunications Capability to All Americans in a Reasonable and Timely Fashion, and Possible Steps to Accelerate Such Deployment Pursuant to Section 706 of the Telecommunications Act of 1996, as Amended by the Broadband Data Improvement Act*, 2016 Broadband Progress Report, 31 FCC Rcd 699, 708-09, para. 22 (2016) (*2016 Broadband Progress Report*) ("[D]ata from the Form 477 . . . help us better analyze mobile broadband deployment than in years past.").

[99] The centroid methodology considers a census block covered if the geometric center point, or centroid, is covered. The methodology estimates coverage of population, land, and road miles by aggregating the totals for "covered" census blocks. *Twentieth Wireless Competition Report*, 32 FCC Rcd at 9016-17, para. 71. In practice, actual-area and centroid methodologies yield similar results at the national level. *Twentieth Wireless Competition Report*, 32 FCC Rcd at 9017-18, para. 72.

[100] This sub-census-block analysis can determine the unique combination of service providers serving a particular percentage of the area in a census block with a certain technology. As this analysis was done at each technology level, the set of unique combinations that it produces are valid for each individual technology, but not across multiple technologies. Essentially, we can distinguish the unique percentages covered by various service providers at the sub-census-block level using a particular technology (e.g., 4G LTE), but we currently cannot determine how this interplays with other technologies (e.g., with 2G or 3G technologies).

[101] In order to fully take advantage of the increase in precision offered by the actual-area coverage methodology, spatially accurate representations of population and road miles would be necessary. We do not have access to such information for the current Report, however.

[102] *See Digital Opportunity Data Collection Second Order and Third Further Notice*, 35 FCC Rcd at 7461, para. 1; *Modernizing the FCC Form 477 Data Program*, WC Docket No. 11-10, Further Notice of Proposed Rulemaking, 32 FCC Rcd 6329, 6331-32, para. 8 (2017) (*2017 Data Collection Improvement FNPRM*). For purposes of this Report, the "*Digital Opportunity Data Collection* proceeding" refers collectively to the *Digital Opportunity Data Collection Second Order and Third Further Notice* and the *Digital Opportunity Data Collection Order and Second Further Notice*. *See* FCC, *Digital Opportunity Data Collection* (*DODC*), https://www.fcc.gov/digital-opportunity-data-collection-dodc (last visited Oct. 27, 2020). The Commission has also used this proceeding to implement the Broadband DATA Act's provisions since its passage.

[103] *Digital Opportunity Data Collection Second Order and Third Further Notice*, 35 FCC Rcd, 7462-63, para. 5; *Digital Opportunity Data Collection Order and Second Further Notice*, 34 FCC Rcd at 7509, para. 10; *2017 Data*
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as recommendations for how to improve the Commission's data,[105] this Report is not the appropriate vehicle for the Commission to make changes to the data collection.[106] Instead, the Commission has revised the FCC Form 477 and established the *Digital Opportunity Data Collection* to collect and verify granular, precise data on fixed and mobile broadband availability.[107] After the Commission initiated its *Digital Opportunity Data Collection* proceeding, Congress enacted the Broadband DATA Act, which largely affirmed the approach to broadband mapping the Commission adopted in the *Digital Opportunity Data Collection*.[108] We note that Congress has only very recently appropriated funding for the creation and maintenance of the systems needed to make the *Digital Opportunity Data Collection* operational,[109] and data from that collection are not yet available.[110]

25. Starting with the December 2019 FCC Form 477 data collection, the wireless reporting requirements were changed to provide more useful information to the public and to streamline unnecessary filings.[111] Specifically, minimum advertised or expected speeds and provider-specific coverage data, reported to the FCC but previously kept confidential, are now publicly released.[112] Mobile providers are no longer required to report coverage by spectrum band, as the FCC usually collects band-specific data from providers directly when needed.[113] Mobile providers now must separately report coverage that satisfies the 5G-NR standards developed by the 3rd Generation Partnership Project

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Collection Improvement FNPRM, 32 FCC Rcd at 6332-33, para. 10; *see also* Rural Broadband Auctions Task Force, *Mobility Fund Phase II Coverage Maps Investigation Staff Report* (2019), https://docs.fcc.gov/public/attachments/DOC-361165A1.pdf (*Mobility Fund Phase II Investigation Staff Report*).

[104] *See, e.g.*, Benton Institute et al. Comments at 2; Broadband Connects America Comments at 1-2; Open Technology Institute & Access Now Comments at 3-4, 19-23; NRECA Comments at 8, 11; Carroll County Broadband Reply at 5-6; Massachusetts Department Reply at 4-6; Common Cause et al. Reply at 10-11.

[105] *See, e.g.*, Common Cause et al. Comments at 12-13; Massachusetts Department Reply at 5, 6-7; Open Technology Institute & Access Now Reply at 19, 21-22; Common Cause et al. Reply at 11-12.

[106] *Notice*, 35 FCC Rcd at 8954-55, para. 20.

[107] *See generally Digital Opportunity Data Collection* proceeding.

[108] Broadband Deployment Accuracy and Technological Availability Act (Broadband DATA Act), Pub. L. No. 116-130, 134 Stat. 228 (2020) (codified at 47 U.S.C. §§ 641-46). Under the Broadband DATA Act, the Commission must establish rules: (1) requiring the collection of granular data from providers on the availability and quality of service of broadband internet access service, which the Commission will use to create publicly available coverage maps; (2) adopting processes for challenging and verifying the coverage maps and submitted data; and (3) instructing mobile providers to submit propagation maps depicting current 4G LTE mobile broadband coverage, along with propagation model details, that consider the effect of clutter and demonstrate minimum specified parameters. 47 U.S.C. §§ 642(b)(5), (a)(1)(B)(i), (b)(2)(B). The Act also requires the Commission to create a common dataset of all locations where fixed broadband Internet access service can be installed. 47 U.S.C. § 642(b)(1)(A)(i).

[109] *See* Consolidated Appropriations Act, 2021, Pub. L. No. 116-260, 134 Stat. 1182, div. E, tit. V, div. N, tit. V, § 906(1) (2020) (enacted), https://www.congress.gov/bill/116th-congress/house-bill/133/text.

[110] Commenters, including one of the aforementioned critics of the current FCC Form 477, recognize the benefits that the *Digital Opportunity Data Collection* will bring. CTIA Comments at 27; Common Cause et al. Comments at 12-13; USTelecom Comments at 14-15; WISPA Comments at 8; Common Cause et al. Reply at 10; WISPA Reply at 10.

[111] *See Digital Opportunity Data Collection Second Order and Third Further Notice*, 35 FCC Rcd at 7474-83, paras. 32-51; *Digital Opportunity Data Collection Order and Second Further Notice*, 34 FCC Rcd 7521-37, paras. 35-75.

[112] *Digital Opportunity Data Collection Order and Second Further Notice*, 34 FCC Rcd at 7521-22, para. 36-40.

[113] *Id.* at 7523-24, para. 41-43.

(3GPP).[114] In general, mobile broadband coverage data must be submitted in four streamlined categories: 5G-NR, 4G LTE, CDMA-based, and GSM-based, instead of the previous nine codes.[115] The voice coverage data reporting requirements have been simplified consistent with the revisions to the requirements for FCC Form 477 mobile broadband reporting.[116]

26. We provide deployment estimates for fixed terrestrial services at speeds of 10/1 Mbps, 25/3 Mbps, 50/5 Mbps, 100/10 Mbps, and 250/25 Mbps based upon year-end data from 2015 to 2019. We exclude the U.S. Territories from the figures that report the five-year progression of deployment because of anomalies in the historical deployment data for Puerto Rico and the U.S. Virgin Islands.[117] However, we include the U.S. Territories in the figures that report current deployment estimates wherever possible,[118] including in Figure 3e, where we present the overall state of fixed and mobile deployment data for the entire United States.[119]

27. *Satellite Services.* We find that FCC Form 477 deployment data for satellite broadband service may overstate the extent to which satellite broadband is available. The FCC Form 477 deployment data for satellite broadband indicate that satellite service offering 25/3 Mbps speeds is available to nearly all of the population.[120] However, other FCC Form 477 data indicate that satellite services have a relatively low subscription rate despite their apparent widespread availability.[121] In Appendix H, we provide deployment estimates for all fixed services, including satellite, from 2015 to 2019.[122] Unless stated otherwise, our analysis in this section is based on all fixed terrestrial services, which do not include satellite.

28. *Terrestrial Fixed Wireless Services.* We note that the FCC Form 477 data for terrestrial

[114] *Id.* at 7524-25, para. 44-45.

[115] *Id.* at 7525-27, para. 46-51.

[116] *Id.* at 7527-29, para. 52-56.

[117] *See 2020 Report*, 35 FCC Rcd at 8999, para. 28. Puerto Rico and the U.S. Virgin Islands account for over 92% of the total combined population of the U.S. Territories; therefore, presenting historical data for these areas would likely misrepresent the progress in deployment that has occurred since 2015. The historical data suggests a 21.7 percentage point increase in deployment between 2015 and 2016. *2019 Report*, 34 FCC Rcd at 3878, para. 39, Fig. 5. In addition, the year-end 2017 deployment data most likely significantly overstate deployment in Puerto Rico and the U.S. Virgin Islands at that time, because the data do not reflect infrastructure damage caused by Hurricanes Maria and Irma. *See 2019 Report*, 34 FCC Rcd at 3877-78, para. 39.

[118] Ookla data are unavailable for the U.S. Territories, thus figures and appendices presenting 10/3 Mbps mobile broadband based on Ookla data will not include the U.S. Territories, even for 2019.

[119] We also include data for Puerto Rico in our presentation of demographic data. Further, Appendices A-E include data for the U.S. Territories.

[120] More specifically, the data indicate that satellite service offering 25/3 Mbps speeds is available to 331.274 million of the 331.777 million Americans, or approximately 100% of the U.S. population. FCC Form 477 Data as of December 31, 2019.

[121] FCC Form 477 data show that the adoption rate for satellite services (residential subscriptions divided by deployed households) for 10/1 Mbps is 1%. FCC Form 477 Data as of December 31, 2019. While satellite signal coverage may enable operators to offer services to wide swaths of the country, overall satellite capacity may limit the number of consumers that can actually subscribe to satellite service at any one time. *2020 Report*, 35 FCC Rcd at 9000, para. 30 n.99; *2019 Report*, 34 FCC Rcd at 3870, para. 28 n.98; *2018 Report*, 33 FCC Rcd at 1681, para. 51 n.148; *see also, e.g.*, ADTRAN Comments at 10 ("[W]hile the footprints of the satellite services provide near ubiquitous coverage for much of the country, capacity constraints limit the actual number of broadband service customers that could be served."); Common Cause et al. Comments at 18 (referencing previous Reports' findings regarding the limitations of satellite service). For this reason, we will continue the Commission's past practice of reporting satellite broadband deployment data separately.

[122] *See infra* Appendix H.

fixed wireless services appear to show that these services are widely available. However, these services have a sufficiently low subscription rate to potentially support a conclusion that the FCC Form 477 deployment data may overstate the extent to which terrestrial fixed wireless services are available.[123] In Appendix I, we provide deployment estimates for terrestrial fixed wired services, that is, fixed services excluding fixed wireless and satellite services, for 2015 to 2019.[124]

29. *Mobile Services.* We continue to conclude that the best way to evaluate mobile broadband deployment and availability is to rely on FCC Form 477 data with a minimum advertised speed of 5/1 Mbps,[125] supplemented with Ookla's speed test data. These data sets serve as a proxy for the likely consumer experience in a given area while providing objective data to assess deployment progress. In future Reports, we anticipate using the data arising from the *Digital Opportunity Data Collection* as they become available.[126] As the Commission has done in previous analyses of advanced telecommunications capability, we employ the centroid methodology in evaluating the FCC Form 477 4G LTE deployment data.[127] We consider a census block to be covered by 4G LTE services if there is at least one service provider serving that census block that reports 5/1 Mbps as the minimum advertised speed, based on their FCC Form 477 submission.

30. We recognize, however, that actual speeds may be considerably faster than the minimum advertised speed. Therefore, we also present estimates based on Ookla speed test data to evaluate the availability of 4G LTE with a median actual speed of 10/3 Mbps or higher.[128] We rely on the Ookla data to supplement our FCC Form 477 analysis primarily because they provide us with a large set of observations of actual speeds that customers receive.[129] As the Commission has done previously, our

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[123] For example, as of December 31, 2019, the adoption rate for fixed wireless services of at least 10/1 Mbps was 2%. FCC Form 477 Data as of December 31, 2019. This contrasts with the 60% adoption rate for cable and the 32% adoption rate for fiber-based services at the same speeds where these services are available in the United States. *Id.*

[124] *See infra* Appendix I.

[125] For fixed services, the Commission has been able to rely upon FCC Form 477 reported maximum advertised speeds to track actual speeds. However, we note that the relationship between actual speeds and the advertised speed reported in the FCC Form 477 for mobile services is more complex, because minimum advertised speed is reported by the mobile providers, and different mobile providers estimate their minimum advertised speed based on various points of their actual speed distribution. *2020 Report*, 35 FCC Rcd at 9000-01, para. 32 n.104. By contrast, the Ookla data provide us with the actual speeds that consumers experience.

[126] *See generally Digital Opportunity Data Collection* proceeding.

[127] *See, e.g.*, *2020 Report*, 35 FCC Rcd at 9000-01, para. 32.

[128] The data collected by the Ookla Speedtest mobile app include test results for download speed, upload speed, and latency, as well as other information, such as the location of the test and operating system of the handset. *2020 Report*, 35 FCC Rcd at 9001-02, para. 33 n.107; *see also* https://www.speedtest.net/about. The Ookla results presented in this Report are based on tests that were executed in the second half of the year for 2015, 2016, 2017, 2018, and 2019 on the smartphone's cellular connection, and using 4G LTE technology. Test data were excluded if they had missing GPS location data or if the reported download or upload speed was less than zero. For all years up to and including 2017, test data were excluded if the reported download or upload speed was greater than 100 Mbps; however, beginning in 2018, this rule was no longer applied, due to changes in network engineering that increased the theoretical maximum upload and download speeds. Multiple tests by a single phone in the same locality and in the same day were averaged (using the median). All Ookla speed tests are user-initiated.

[129] We note that, in general, crowd-sourced data can offer the advantage of generating a large volume of data at a very low cost, and of measuring actual consumer experience on a network in a wide variety of locations, indoor and outdoor. Crowd-sourced data, however, often are not collected pursuant to statistical sampling techniques, and may require adjustments to construct a representative sample from the raw data. For instance, crowd-sourced mobile data come from a self-selected group of users, and there often is little control for most tests regarding such parameters as when people implement the test, whether the test is performed indoors or outdoors, the geographic

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analysis of the availability of mobile 4G LTE services with a median speed of 10/3 Mbps includes actual speed test data in counties with at least 300 test observations.[130] The more densely-populated counties have a higher likelihood of being included in this analysis, because there generally are more observations in those geographical areas with a higher population density.[131] Although we do not have reliable on-the-ground speed data for every county in the United States, the Ookla data cover approximately 97% of the population of the United States, excluding the U.S. Territories, for which we do not have data.[132] Using the existing FCC Form 477 data combined with on-the-ground speed test data provides the most reliable and comprehensive available data that are currently available on the extent of mobile coverage,[133] and our continued use allows for a consistent measure of progress over time.

31. *Schools.* For purposes of this Report, we assess deployment in elementary and secondary schools based upon the best publicly-available data–specifically, that analyzed in Connected Nation's *2020 Connect K-12 Report*.[134] Connected Nation is the successor to EducationSuperHighway, which

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location of the tester, and the vintage of the consumer's device. *2020 Report*, 35 FCC Rcd at 9000-01, para. 33 n.109.

[130] *See 2020 Report*, 35 FCC Rcd at 9000-01, para. 33. This sample size threshold applies to each county for each time frame (2H2015, 2H2016, 2H2017, 2H2018, and 2H2019). If a county does not have at least 300 observations during one of these time frames, the county is not included in the actual speed analysis for the period during which the number of observations falls below 300. The 300 observations threshold is a conservative threshold and is based on a general mean and median sample size analysis. We consider a county to have a sufficient sample size if there are at least 300 total observations in a given year, after the cleaning and trimming rules have been applied. In contrast, in prior *Reports*, the Commission considered a county to have a sufficient sample size if there were at least 300 total observations in *all* of the five years, after cleaning and trimming rules had been applied. *See 2020 Report,* 35 FCC Rcd at 9000-01, para.33 & n.111. This change in methodology increases the population considered in this analysis; thus, the results reported in prior *Reports* cannot be compared to the results reported in this Report. *See, e.g.*, *2020 Report,* 35 FCC Rcd at 9004-5, para.37. County geography is assigned using the latitude and longitude coordinates that are collected during each Ookla speed test, via the device's GPS. This allows us to evaluate actual median upload and download speeds at the county level, in each year of the five-year time period, for counties in which approximately 97% of the U.S. population live (not including the U.S. Territories). If a census block has 4G LTE coverage of at least 5/1 Mbps based on the FCC Form 477 minimum advertised speeds, it is assigned the median upload and download speeds that are calculated for the county in which it is located, which allows us to evaluate the mobile broadband speeds for each census block within the United States.

[131] Wireless mobile speeds vary over even small local areas. Therefore, ascribing the median county Ookla speed to an entire county will sometimes overestimate or underestimate realized local speeds. Use of Ookla data alone would overestimate coverage, as counties with only partial coverage would be represented as having 100% coverage. Use of FCC Form 477 data alone would necessitate reliance on the 5/1 Mbps reporting standard.

[132] The percentage of the population in our analysis is based on the total U.S. population, not including the U.S. Territories, for which we separately report our results. The Ookla speed data population in Figure 2b is a subset of the total U.S. population evaluated in Figure 2a, and refers to the population in the counties for which we believe there are a statistically significant number of on-the-ground speed test observations. In 2019, for example, the U.S. population, not including the U.S. Territories, was 328.210 million, whereas in Figure 2b, we use 319.341 million as the basis for our 2019 calculations. The population evaluated figure, 319.341 million, is the population for the U.S., excluding the U.S. Territories and the population in the counties without a sufficient number of reliable on-the-ground speed test data observations.

[133] *See 2020 Report*, 35 FCC Rcd at 9000-01, paras. 32-33 (discussing use of FCC Form 477 combined with Ookla data to account for limitations in both data sets).

[134] *See* Connected Nation, Connect K-12 2020 Executive Summary (*2020 Connect K-12 Report*), https://connectk12.org/static/media/Connect_K12_2020_Executive_Summary_Full_Report.d84a960a.pdf (last visited Nov. 19, 2020). In the *2019 Report*, the Commission evaluated information provided by the Consortium for School Networking (CoSN), specifically the *CoSN's 2018-2019 Annual Infrastructure Report*, a report published in January 2019. *See 2019 Report*, 34 FCC Rcd at 3887-88, para. 51. Because there is no subsequent CoSN report, we
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previously published an annual State of the States Report.[135] We have previously relied on EducationSuperHighway's annual State of the States Report, a report similar, but not identical to, the Connect K-12 Report.[136] The *2020 Connect K-12 Report* tracks and provides analysis of public schools' progress toward the Commission's long-term goal for K-12 connectivity using the Commission's Form 471 data and additional outreach efforts to E-Rate applicants for clarifications on their broadband purchases.[137]

B. Broadband Deployment Estimates

32. In Figures 1 through 3 below, we compare deployment in the most recent year of data available to deployment in the previous four years.[138] For purposes of this Report, we also report results for federally-recognized Tribal lands as identified in the 2010 Census. We aggregate federally-recognized Tribal lands into four Tribal lands categories (the Lower 48 States,[139] Tribal Statistical Areas,[140] Alaskan Villages,[141] and Hawaiian Home Lands)[142] and report deployment for these four geographic categories separately and jointly.[143]

1. Deployment of Fixed Advanced Telecommunications Capability

33. Figure 1 shows the deployment of fixed terrestrial broadband at speeds of 25/3 Mbps, the Commission's current benchmark for fixed advanced telecommunications capability.[144] As of year-end 2019, approximately 96% of the overall population had coverage of such services, up from 94% in 2018. The data clearly demonstrate that the gap between urban areas on the one hand and rural and Tribal areas on the other, has narrowed each year over the last five years. Indeed, while the gap between urban and rural areas was 30 percentage points as of year-end 2016, it was only 16 percentage points as of year-end 2019. As of the end of 2019, approximately 17% of Americans in rural areas and 21% of Americans in Tribal lands lack coverage from fixed terrestrial 25/3 Mbps broadband, as compared to only 1% of

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do not rely on any CoSN Annual Infrastructure Report in this Report, just as the Commission did not in the *2020 Report*. *2020 Report*, 35 FCC Rcd at 9002, para. 34 & n.114.

[135] *See 2020 Connect K-12 Report* at 4.

[136] *See, e.g.,* 2020 Report, 35 FCC Rcd at 8986, paras. 52-53; 2019 Report, 34 FCC Rcd at 3887, paras. 50-51.

[137] *See 2020 Connect K-12 Report* at 16; Connect K-12: Frequently Asked Questions, https://connectk12.org/faq (*2020 Connect K-12 Report FAQ*).

[138] Unless otherwise noted, the deployment percentage estimate for fixed terrestrial services and/or mobile services is the population in the census blocks with coverage for the service divided by the total population in the area being considered (e.g., United States, all rural areas, and all urban areas).

[139] These areas include: (1) Joint Use Areas; (2) legal, federally-recognized American Indian Area consisting of reservation and associated off-reservation trust land; (3) legal, federally-recognized American Indian Area consisting of reservation only; and (4) legal, federally-recognized American Indian Area consisting of off-reservation trust land only.

[140] Tribal Statistical Areas are statistical American Indian Areas defined for a federally-recognized Tribe that does not have reservation or off-reservation trust land; specifically, a Tribal Designated Statistical Area (TDSA) or Oklahoma Tribal Statistical Area (OTSA).

[141] Alaskan Native Village Statistical Area.

[142] Hawaiian Home Lands were established by the Hawaiian Homes Commission Act of 1921.

[143] *See infra* Figs. 9 and 10.

[144] Unless stated otherwise, all references in this Report to data for the "United States," include the 50 States and the District of Columbia, but not the U.S. Territories. The estimates reported for years prior to 2019 may differ slightly from those reported in the *2020 Report* and the *2018 Communications Marketplace Report* because these estimates are based upon the most recent updates of the fixed broadband data previously released by the Commission.

Americans in urban areas.[145]

Fig. 1
Deployment (Millions) of Fixed Terrestrial 25/3 Mbps Services

	2015		2016		2017		2018		2019	
	Pop.	%	Pop.	%	Pop.	%	Pop.	%	Pop.	%
United States	287.853	89.9%	296.320	91.9%	304.473	93.5%	309.000	94.4%	313.749	95.6%
Rural Areas	38.271	61.5%	42.628	67.7%	46.982	73.7%	50.146	77.7%	53.834	82.7%
Urban Areas	249.582	96.7%	253.692	97.7%	257.491	98.3%	258.854	98.5%	259.915	98.8%
Tribal Lands	2.290	57.8%	2.520	63.1%	2.734	68.1%	2.922	72.3%	3.203	79.1%
Pop. Evaluated	320.289	100.0%	322.518	100.0%	325.716	100.0%	327.167	100.0%	328.210	100.0%

2. Deployment of Mobile 4G LTE

34. Figure 2a shows that almost all of the American population lives in geographical areas covered by mobile 4G LTE with a minimum advertised speed of at least 5/1 Mbps. From 2015 to 2019, the percentage of Americans living in rural areas with coverage of 4G LTE at 5/1 Mbps increased from approximately 98% to 99%. Figure 2b shows that between 2018 and 2019, the percentage of Americans living in the United States with mobile 4G LTE services coverage at median speeds of 10/3 Mbps increased from approximately 94% to 97%. In addition, gains have been made in rural areas, where coverage increased from approximately 80% to almost 91% between 2018 and 2019.[146] And between 2017 and 2019, deployment of mobile 4G LTE services at median speeds of 10/3 Mbps expanded to cover an additional 16.6 million Americans living in rural areas.

[145] For purposes of presenting estimates for rural and urban areas in this section, we aggregate all similarly categorized areas. The designation of a census block as urban is based upon the 2010 Census. An urban census block encompasses all population, housing, and territory included within a census block categorized as in an urban area or urban cluster. A rural census block encompasses all population, housing, and territory not included within urban census blocks. U.S. Census, *Urban and Rural*, http://www.census.gov/programs-surveys/geography/guidance/geo-areas/urban-rural.html (last visited Oct. 29, 2020).

[146] We present additional deployment data for mobile 4G LTE services for each state, the District of Columbia, U.S. Territory, and each category of Tribal land in the appendices. *See infra* Appendices A, B, and C (reporting figures by state, the District of Columbia, and U.S. Territory), Appendices D and E (reporting figures by county and county equivalent, state, the District of Columbia, and U.S. Territory), and Appendix F (reporting figures for Tribal lands).

[147] The analyses in Figures 2a to 3d exclude the U.S. Territories. The analyses in Figures 2a, 3a, and 3c are based on FCC Form 477 data. In contrast, the analyses in Figures 2b, 3b, and 3d are based on Ookla data, and exclude any

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Fig. 2a
Deployment (Millions) of Mobile 4G LTE with a Minimum Advertised Speed of 5/1 Mbps

Area	2015		2016		2017		2018		2019	
	Pop.	%	Pop.	%	Pop.	%	Pop.	%	Pop.	%
United States	318.923	99.6%	321.347	99.6%	325.117	99.8%	326.727	99.9%	327.817	99.9%
Rural Areas	60.969	97.9%	61.802	98.2%	63.204	99.1%	64.097	99.4%	64.722	99.4%
Urban Areas	257.954	100.0%	259.545	100.0%	261.912	100.0%	262.630	100.0%	263.095	100.0%
Tribal Lands	3.722	93.9%	3.788	94.9%	3.896	97.0%	3.937	97.5%	3.959	97.7%
Pop. Evaluated	320.289	100.0%	322.518	100.7%	325.716	100.0%	327.167	100.0%	328.210	100.0%

Fig. 2b
Deployment (Millions) of Mobile 4G LTE with a Median Speed of 10/3 Mbps[147]

Area	2015		2016		2017		2018		2019	
	Pop.	%	Pop.	%	Pop.	%	Pop.	%	Pop.	%
United States	247.649	82.2%	265.270	86.4%	275.091	86.8%	298.401	93.8%	310.923	97.4%
Rural Areas	33.260	68.4%	35.112	68.1%	36.585	64.3%	45.904	79.7%	53.156	90.8%
Urban Areas	214.389	84.8%	230.158	90.1%	238.506	91.8%	252.497	96.9%	257.767	98.8%
Pop. Evaluated	301.457	92.6%	307.067	95.2%	316.793	97.3%	318.269	97.3%	319.341	97.3%

3. Deployment of Fixed Services and Mobile 4G LTE

35. Figure 3a shows deployment across all geographic areas for both fixed terrestrial 25/3 Mbps services *and* 5/1 Mbps mobile 4G LTE.[148] Overall, as of year-end 2019, approximately 313.6 million Americans, or 96% of the population, are covered by both 25/3 Mbps fixed terrestrial service and mobile 4G LTE with a minimum advertised speed of 5/1 Mbps. In rural areas, approximately 82% of Americans are covered by both services, up from 78% in 2018. On Tribal lands, approximately 79% of Americans have coverage from both services, up from 72% in 2018. Figure 3b shows deployment of fixed terrestrial speeds of 25/3 Mbps *and* mobile 4G LTE with median speed of 10/3 Mbps. As of December 31, 2019, approximately 94% of Americans live in geographic areas covered by both services, an increase of four percentage points since 2018. Further, these data indicate that, between 2018 and

county (and its associated census blocks) for which there is insufficient Ookla data. In addition, we do not report results for Tribal lands in Figures 2b, 3b, and 3d because we have concerns with the reliability of the Ookla data for these areas. Tribal areas not only typically have fewer speed tests, but there are also fewer of these areas relative to urban and rural areas. Thus, deployment estimates for Tribal areas are more sensitive to sample variance. The population figure reported in the bottom row of Figures 2b, 3b, and 3d is the population evaluated for the reported time period, and the percentage is the percentage of the U.S. population evaluated. Figures that include the availability of 4G LTE with a median speed of 10/3 Mbps show less than 100% of the population evaluated due to the unavailability of such Ookla data in certain places. Thus, for example, the 319.341 million population evaluated figure for 2019 in Figure 2b represents approximately 97% of the overall population in the 50 U.S. states and the District of Columbia (319.341/328.210=0.97). Regardless of our deployment estimates for mobile 4G LTE with a median speed of 10/3 Mbps, Americans residing in the counties without sufficient Ookla data to create a statistically significant county sample to be included in Figures 2b, 3b, and 3d, receive minimum advertised speeds of 5/1 Mbps, and likely receive mobile services with speeds higher than 5/1 Mbps.

[148] We present additional deployment data for fixed terrestrial 25/3 Mbps and/or mobile 4G LTE services in the appendices. *See infra* Appendices A, B and C (reporting figures by state, District of Columbia, and U.S. Territory), Appendix D (reporting figures by state, county and county equivalent), Appendix E (reporting figures by urban and rural areas within each state, county or county equivalent, state, the District of Columbia, and U.S. Territory), and Appendix F (reporting figures for Tribal lands).

2019, deployment increased from approximately 66% to over 77% for Americans living in rural areas.

36. Figure 3c reports deployment of fixed terrestrial 25/3 Mbps service *or* mobile 4G LTE with a minimum advertised speed of 5/1 Mbps, and shows that services have been deployed to 99.7% or more of Americans since 2015. Figure 3d shows that approximately 99% of the population in the evaluated areas are covered by either 25/3 Mbps fixed terrestrial service or mobile 4G LTE with a median speed of at least 10/3 Mbps.

Fig. 3a
Deployment (Millions) of Fixed Terrestrial 25/3 Mbps *and* Mobile 4G LTE with a Minimum Advertised Speed of 5/1 Mbps

Area	2015		2016		2017		2018		2019	
	Pop.	%	Pop.	%	Pop.	%	Pop.	%	Pop.	%
United States	287.387	89.7%	295.853	91.7%	304.216	93.4%	308.811	94.4%	313.579	95.5%
Rural Areas	37.840	60.8%	42.182	67.0%	46.731	73.3%	49.981	77.5%	53.686	82.4%
Urban Areas	249.547	96.7%	253.671	97.7%	257.485	98.3%	258.830	98.5%	259.892	98.8%
Tribal Lands	2.258	57.0%	2.491	62.4%	2.722	67.8%	2.914	72.1%	3.196	78.9%
Pop. Evaluated	320.289	100.0%	322.518	100.7%	325.716	100.0%	327.167	100.0%	328.210	100.0%

Fig. 3b
Deployment (Millions) of Fixed Terrestrial 25/3 Mbps *and* Mobile 4G LTE with a Median Speed of 10/3 Mbps

Area	2015		2016		2017		2018		2019	
	Pop.	%	Pop.	%	Pop.	%	Pop.	%	Pop.	%
United States	231.815	76.9%	252.232	82.1%	264.364	83.5%	287.046	90.2%	300.156	94.0%
Rural Areas	23.134	47.6%	26.241	50.9%	29.223	51.4%	37.780	65.6%	45.346	77.4%
Urban Areas	208.681	82.5%	225.991	88.5%	235.142	90.5%	249.266	95.6%	254.810	97.7%
Pop. Evaluated	301.457	92.6%	307.067	95.2%	316.793	97.3%	318.269	97.3%	319.341	97.3%

Fig. 3c
Deployment (Millions) of Fixed Terrestrial 25/3 Mbps *or* Mobile 4G LTE with a Minimum Advertised Speed of 5/1 Mbps

Area	2015		2016		2017		2018		2019	
	Pop.	%	Pop.	%	Pop.	%	Pop.	%	Pop.	%
United States	319.389	99.7%	321.814	99.8%	325.373	99.9%	326.916	99.9%	327.987	99.9%
Rural Areas	61.400	98.6%	62.248	98.9%	63.455	99.5%	64.262	99.6%	64.869	99.7%
Urban Areas	257.989	100.0%	259.567	100.0%	261.919	100.0%	262.653	100.0%	263.117	100.0%
Tribal Lands	3.753	94.7%	3.817	95.6%	3.907	97.3%	3.944	97.7%	3.967	97.9%
Pop. Evaluated	320.289	100.0%	322.518	100.7%	325.716	100.0%	327.167	100.0%	328.210	100.0%

Fig. 3d
Deployment (Millions) of Fixed Terrestrial 25/3 Mbps *or* Mobile 4G LTE with a Median Speed of 10/3 Mbps

Area	2015		2016		2017		2018		2019	
	Pop.	%	Pop.	%	Pop.	%	Pop.	%	Pop.	%
United States	293.287	97.3%	299.722	97.6%	309.194	97.6%	313.987	98.7%	317.452	99.4%
Rural Areas	42.270	86.9%	45.431	88.1%	50.185	88.2%	53.719	93.3%	56.816	97.0%
Urban Areas	251.017	99.3%	254.291	99.5%	259.008	99.7%	260.269	99.8%	260.635	99.9%
Pop. Evaluated	301.457	92.6%	307.067	95.2%	316.793	97.3%	318.269	97.3%	319.341	97.3%

37. Figure 3e reports deployment over the entire United States, including the U.S. Territories, for both fixed terrestrial 25/3 Mbps services and 5/1 Mbps mobile 4G LTE as of December 31, 2019. These data show year-end 2019 deployment rates comparable to those presented in Figures 1, 2a, 3a, and 3c in which the U.S. Territories are excluded.[149]

Fig. 3e
Deployment (Millions) of Fixed Terrestrial 25/3 Mbps and Mobile 4G LTE with a Minimum Advertised Speed of 5/1 Mbps for the United States, Including U.S. Territories (December 31, 2019)

	Fixed Terrestrial 25/3 Mbps		Mobile 4G LTE 5/1 Mbps		Fixed Terrestrial 25/3 Mbps and Mobile 4G LTE 5/1 Mbps		Fixed Terrestrial 25/3 Mbps or Mobile 4G LTE 5/1 Mbps	
	Pop.	%	Pop.	%	Pop.	%	Pop.	%
United States	317.257	95.6%	331.333	99.9%	317.035	95.6%	331.554	99.9%
Rural Areas	54.062	82.8%	64.952	99.4%	53.906	82.5%	65.108	99.7%
Urban Areas	263.195	98.8%	266.381	100.0%	263.129	98.8%	266.447	100.0%
Pop. Evaluated	331.777	100.0%	331.777	100.0%	331.777	100.0%	331.777	100.0%

4. Additional Deployment Estimates

38. Figure 4 shows deployment of fixed terrestrial services at various speed tiers from year-end 2015 through 2019.[150] As of December 2019, fixed terrestrial 50/5 Mbps service is deployed to approximately 94% of the population, up from 93% in 2018. Between 2018 and 2019, the deployment of 100/10 Mbps increased from approximately 91% to 92% of the population, and the deployment of 250/25 Mbps also increased from approximately 86% to over 87% of the population. While deployment in rural areas and on Tribal lands lags behind deployment in urban areas at all five speed tiers, the data show year-over-year improvements for all speeds in these areas. For example, between 2018 and 2019, the deployment of 250/25 Mbps increased from approximately 52% to almost 56% in rural areas, and from approximately 46% to almost 50% on Tribal lands.

[149] Appendices A-E include data for the U.S. Territories.

[150] We present deployment estimates for all fixed services, including satellite broadband, in Appendix H, and deployment estimates for all fixed wired services, excluding satellite and fixed wireless services, in Appendix I. *See infra* Appendices H, I. The data in Figure 4 and Appendices H and I exclude the U.S. Territories.

Fig. 4
Deployment (Millions) of Fixed Terrestrial Services at Different Speed Tiers

Area	2015		2016		2017		2018		2019	
	Pop.	%	Pop.	%	Pop.	%	Pop.	%	Pop.	%
10/1 Mbps										
United States	302.138	94.3%	309.095	95.8%	315.656	96.9%	318.854	97.5%	321.066	97.8%
Rural Areas	48.361	77.7%	52.424	83.3%	56.169	88.1%	58.480	90.7%	60.231	92.5%
Urban Areas	253.777	98.4%	256.671	98.9%	259.487	99.1%	260.373	99.1%	260.835	99.1%
Tribal Lands	2.886	72.8%	3.201	80.2%	3.348	83.3%	3.511	86.9%	3.565	88.0%
25/3 Mbps										
United States	287.853	89.9%	296.320	91.9%	304.473	93.5%	309.000	94.4%	313.749	95.6%
Rural Areas	38.271	61.5%	42.628	67.7%	46.982	73.7%	50.146	77.7%	53.834	82.7%
Urban Areas	249.582	96.7%	253.692	97.7%	257.491	98.3%	258.854	98.5%	259.915	98.8%
Tribal Lands	2.290	57.8%	2.520	63.1%	2.734	68.1%	2.922	72.3%	3.203	79.1%
50/5 Mbps										
United States	283.329	88.5%	291.260	90.3%	298.242	91.6%	303.268	92.7%	307.736	93.8%
Rural Areas	35.316	56.7%	39.147	62.2%	42.312	66.3%	45.569	70.6%	48.742	74.9%
Urban Areas	248.013	96.1%	252.114	97.1%	255.930	97.7%	257.699	98.1%	258.994	98.4%
Tribal Lands	2.116	53.4%	2.269	56.9%	2.462	61.3%	2.639	65.3%	2.799	69.1%
100/10 Mbps										
United States	215.582	67.3%	244.110	75.7%	288.497	88.6%	296.249	90.5%	300.933	91.7%
Rural Areas	20.481	32.9%	25.781	41.0%	37.223	58.4%	40.390	62.6%	43.476	66.8%
Urban Areas	195.101	75.6%	218.329	84.1%	251.275	95.9%	255.859	97.4%	257.457	97.8%
Tribal Lands	1.669	42.1%	1.875	47.0%	2.198	54.7%	2.420	59.9%	2.582	63.7%
250/25 Mbps										
United States	67.912	21.2%	140.577	43.6%	190.041	58.3%	280.162	85.6%	286.185	87.2%
Rural Areas	5.460	8.8%	9.871	15.7%	17.991	28.2%	33.267	51.6%	36.209	55.6%
Urban Areas	62.452	24.2%	130.707	50.4%	172.050	65.7%	246.895	94.0%	249.976	95.0%
Tribal Lands	0.276	7.0%	1.330	33.3%	1.604	39.9%	1.837	45.5%	2.011	49.6%
Pop. Evaluated	320.289	100.0%	322.518	100.0%	325.716	100.0%	327.167	100.0%	328.210	100.0%

[151] To present demographic data and compare the demographic data between areas where services are and are not deployed, we aggregate the census block data up to the census block group level, the lowest aggregation level for which demographic information is available. This unavoidable aggregation leads to census blocks with differing characteristics being grouped together. In the case of differing levels of deployment, we designate a census block group as without deployment if more than 5% of the population in the census block group is without services, regardless of the level of deployment in any particular census block in the group. Further, some census block groups are a mix of census blocks that are designated as rural and urban. In such instances, we designate a census block group as rural if more than 50% of the population in the census block group resides in census blocks designated as rural. Finally, we designate a census block group as Tribal lands if more than 50% of the land area in the census block group is designated as Tribal lands. We use the most recently available Census Bureau's ACS Five-Year Estimates 2014-2018 for income and poverty measures for the states, District of Columbia and Puerto Rico; income

(continued….)

C. Demographic Data

39. In Figures 5, 6, 7, and 8, we present demographic data with our deployment analysis.[151] Figures 5 and 6 compare the available demographic data for Americans with and without coverage by fixed terrestrial 25/3 Mbps service and mobile 4G LTE. Figure 5 presents this analysis for the United States (excluding U.S. Territories other than Puerto Rico) as a whole, urban and rural areas, and Tribal lands for fixed terrestrial 25/3 Mbps service and mobile 4G LTE with a minimum advertised speed of 5/1 Mbps in 2019.[152] The data show that, generally, Americans living in areas where these services are deployed typically live in census block groups with lower poverty rates and with higher average populations, population densities, per capita incomes, and median household incomes than Americans living in areas without coverage by these services.

Fig. 5
Comparison of Demographic Data Between Areas With and Without Fixed Terrestrial 25/3 Mbps and Mobile 4G LTE with a Minimum Advertised Speed of 5/1 Mbps (December 31, 2019)

	Population	Population Density	Per Capita Income ($2018)	Median Household Income ($2018)	Household Poverty Rate
United States[153]					
With	1,517.0***	7,182.3***	$33,074.43***	$67,442.92***	14.7%***
Without	1,423.5	1,171.7	$27,342.03	$53,894.49	15.7%
Rural Areas					
With	1,438.1***	185.9***	$31,608.93***	$64,190.42***	11.3%***
Without	1,353.9	69.3	$26,919.99	$53,285.35	14.6%
Urban Areas					
With	1,527.7***	8,142.5***	$33,275.44***	$67,895.73***	15.1%***
Without	1,588.4	3,780.4	$28,276.33	$55,406.90	18.6%
Tribal Lands (Rural and Urban Areas)					
With	1,397.2**	1,886.6***	$27,122.36***	$53,463.90***	16.3%***
Without	1,333.9	295.9	$21,963.42	$44,749.57	21.9%
Tribal Rural Areas					
With	1,387.8	159.3***	$25,673.49	$53,020.00	16.4%
Without	1,346.3	65.0	$22,471.52	$45,821.08	21.0%
Tribal Urban Areas					
With	1,401.3**	2,593.1***	$27,714.10***	$53,607.11***	16.2%***
Without	1,292.2	1,074.7	$20,262.86	$41,129.25	24.7%

measures are not available for the other U.S. Territories. Per capita income and median household income for 2018 are measured in 2018 Inflation-Adjusted Dollars. The household poverty rate is the proportion of households living below the poverty level. Population Density is the total population residing in the census block group as of 2019 divided by the square miles of land in the census block group, with the estimate of land area is based upon the 2010 Census.

[152] Demographic data are not available for U.S. Territories other than Puerto Rico. We provide state-by-state and county-by-county demographic deployment information (including for Puerto Rico) in Appendices D and E.

[153] Data exclude U.S. Territories other than Puerto Rico.

	Population	Population Density	Per Capita Income ($2018)	Median Household Income ($2018)	Household Poverty Rate
We test for a statistical difference in the reported means between areas with and without deployment of these services. The level of statistical significance is indicated by the number of stars. The absence of a star indicates no statistical difference between the reported figures. * signifies statistical significance at a 90% level of confidence, ** signifies statistical significance at a 95% level of confidence, and *** signifies statistical significance at a 99% level of confidence.					

40. Figure 6 compares the available demographic data across urban and rural areas for Americans in the 50 states and the District of Columbia with and without coverage by both fixed terrestrial 25/3 Mbps service and mobile 4G LTE service with a median speed of 10/3 Mbps in 2019.[154] Like Figure 5, Figure 6 shows that Americans living in areas where these services are deployed typically live in census block groups where there are lower poverty rates, and where there are higher average populations, population densities, per capita incomes, and median household incomes than areas without such service deployment.

Fig. 6
Comparison of Demographic Data Between Areas With and Without Fixed Terrestrial 25/3 Mbps and Mobile 4G LTE with a Median Speed of 10/3 Mbps (December 31, 2019)

	Population	Population Density	Per Capita Income ($2018)	Median Household Income ($2018)	Household Poverty Rate
United States[155]					
With Deployment	1,517.7***	7,194.7***	$33,336.42***	$67,970.89***	14.3%***
Without	1,439.8	1,302.2	$27,441.02	$54,245.57	15.7%
Rural Areas					
With Deployment	1,407.7***	172.9***	$31,212.33***	$63,254.26***	11.6%***
Without	1,385.0	78.1	$27,291.17	$54,067.27	14.1%
Urban Areas					
With Deployment	1,533.7	8,221.2***	$33,646.93***	$68,669.25***	14.7%***
Without	1,543.21	3,615.0	$27,728.41	$54,599.34	18.7%
We test for a statistical difference in the reported means between areas with and without deployment of these services. The level of statistical significance is indicated by the number of stars. The absence of a star indicates no statistical difference between the reported figures. * signifies statistical significance at a 90% level of confidence, ** signifies statistical significance at a 95% level of confidence, and *** signifies statistical significance at a 99% level of confidence.					

41. Figure 7 shows, for 2019, how the average proportion of the population with coverage by fixed terrestrial 25/3 Mbps service and mobile 4G LTE service with a minimum advertised speed of 5/1 Mbps varies with median household income, population density, and poverty rate at the census block

[154] As above, we exclude the U.S. Territories from this analysis due to a lack of Ookla data for these areas, and we do not report separately for Tribal lands because of concerns with the representativeness of the Ookla data for these areas.

[155] Data exclude U.S. Territories other than Puerto Rico.

group level.[156] On average, deployment is highest in census block groups with the highest median household incomes, the highest population densities, and the lowest poverty rates.

Fig. 7
Average Percentage of Population with Fixed Terrestrial 25/3 Mbps and Mobile 4G LTE with a Minimum Advertised Speed of 5/1 Mbps by Census Block Group Level Demographic Variables (December 31, 2019)[157]

	Fixed Terrestrial 25/3 Mbps	Mobile 4G LTE 5/3 Mbps	Both Fixed and Mobile 4G LTE
Median Household Income ($2018)			
First Quartile (Lowest Median Household Income)	93.7%	99.7%	93.5%
Second Quartile	93.1%	99.8%	93.0%
Third Quartile	95.5%	99.9%	95.5%
Fourth Quartile (Highest Median Household Income)	98.5%	100.0%	98.5%
Population Density			
First Quartile (Lowest Pop. Density)	83.5%	99.3%	83.2%
Second Quartile	98.2%	100.0%	98.2%
Third Quartile	99.2%	100.0%	99.2%
Fourth Quartile (Highest Pop. Density)	99.3%	100.0%	99.3%
Household Poverty Rate			
First Quartile (Lowest Household Poverty Rate)	97.4%	99.9%	97.3%
Second Quartile	95.3%	99.9%	95.2%
Third Quartile	93.5%	99.8%	93.4%
Fourth Quartile (Highest Household Poverty Rate)	94.6%	99.7%	94.4%

42. Figure 8 depicts how the average proportion of the population with coverage by fixed terrestrial services by speed tier varies with median household income, population density, and household poverty rate at the census block group level. On average, deployment is highest in census blocks with the highest median household incomes, the highest population densities, and the lowest household poverty rates.

[156] We present these results at the census block group, the smallest geographic areas for which income data are available, to examine how the deployment rate varies with income measures in the geographic area.

[157] Data exclude U.S. Territories other than Puerto Rico.

Fig. 8
Average Percentage of Population With Fixed Terrestrial Services by Census Block Group Level Demographic Variables (December 31, 2019)[158]

	10/ 1 Mbps	25/ 3 Mbps	50/ 5 Mbps	100/ 10 Mbps	250/ 25 Mbps
Median Household Income ($2018)					
First Quartile (Lowest Median Household Income)	97.1%	93.7%	92.1%	90.0%	83.6%
Second Quartile	97.0%	93.1%	90.3%	87.3%	81.0%
Third Quartile	98.0%	95.5%	92.9%	90.2%	85.6%
Fourth Quartile (Highest Median Household Income)	99.1%	98.5%	97.7%	96.8%	94.6%
Population Density					
First Quartile (Lowest Pop. Density)	92.9%	83.5%	76.5%	69.3%	58.2%
Second Quartile	98.9%	98.2%	97.7%	96.6%	91.3%
Third Quartile	99.4%	99.2%	99.0%	98.7%	96.3%
Fourth Quartile (Highest Pop. Density)	99.5%	99.3%	99.3%	99.1%	98.4%
Household Poverty Rate					
First Quartile (Lowest Household Poverty Rate)	98.6%	97.4%	95.9%	94.3%	91.1%
Second Quartile	97.9%	95.3%	92.9%	90.4%	85.6%
Third Quartile	97.2%	93.5%	90.9%	88.2%	82.4%
Fourth Quartile (Highest Household Poverty Rate)	97.4%	94.6%	93.2%	91.3%	85.6%

D. Tribal Lands Data

43. In Figures 9 and 10, we present additional deployment estimates for Americans living on Tribal lands for each Tribal lands category.[159] Figure 9 presents deployment on Tribal lands from 2015 to 2019 of fixed terrestrial 25/3 Mbps services and mobile 4G LTE service with a speed of at least 5/1 Mbps. Overall, in 2019, approximately 79% of Tribal lands are covered by fixed terrestrial 25/3 Mbps services and mobile 4G LTE with a speed of 5/1 Mbps, an increase from 72% in 2018 based on FCC Form 477 data. Deployment on rural Tribal lands continues to lag behind urban Tribal lands, with only approximately 65% of all Tribal lands in rural areas having deployment of both services, as compared to 95% of Tribal lands in urban areas. But this Tribal urban-rural divide is narrowing: the gap between the percentage of Americans living on urban Tribal lands and the percentage of Americans living on rural Tribal lands with access to 25/3 Mbps fixed broadband and Mobile 4G LTE with a minimum advertised speed of 5/1 Mbp has been nearly halved between 2015 and 2019, falling from more than 55 points to 30 points.

[158] Data exclude U.S. Territories other than Puerto Rico.

[159] We present more granular state-by-state Tribal lands data in Appendix F.

Fig. 9
Deployment (Millions) on Tribal Lands of Fixed Terrestrial 25/3 Mbps and Mobile 4G LTE with a Minimum Advertised Speed of 5/1 Mbps

	2015		2016		2017		2018		2019	
	Pop.	%	Pop.	%	Pop.	%	Pop.	%	Pop.	%
Tribal Lands	2.258	57.0%	2.491	62.4%	2.722	67.8%	2.914	72.1%	3.196	78.9%
Rural Areas	0.614	30.1%	0.780	37.8%	0.954	45.7%	1.114	52.9%	1.364	64.5%
Urban Areas	1.644	85.6%	1.711	88.8%	1.768	91.6%	1.799	93.1%	1.831	94.5%
Alaskan Villages	0.110	42.7%	0.135	51.5%	0.151	57.0%	0.176	65.9%	0.185	69.3%
Rural Areas	0.039	23.7%	0.061	36.2%	0.073	42.4%	0.093	54.1%	0.102	59.3%
Urban Areas	0.071	76.7%	0.074	79.0%	0.079	83.3%	0.083	87.3%	0.083	87.5%
Hawaiian Home Lands	0.030	88.9%	0.030	88.6%	0.030	89.4%	0.030	89.1%	0.032	93.1%
Rural Areas	0.002	43.9%	0.002	43.5%	0.003	47.7%	0.003	47.8%	0.004	64.6%
Urban Areas	0.027	98.0%	0.027	98.0%	0.027	98.2%	0.027	98.2%	0.028	99.5%
Lower 48 States	0.452	41.5%	0.508	46.1%	0.595	53.3%	0.638	56.5%	0.758	66.8%
Rural Areas	0.207	28.4%	0.239	32.3%	0.311	41.3%	0.344	45.1%	0.434	56.5%
Urban Areas	0.245	67.8%	0.270	74.1%	0.284	78.1%	0.293	80.2%	0.324	88.4%
Tribal Statistical Areas	1.666	64.5%	1.818	70.2%	1.946	74.8%	2.070	79.4%	2.221	84.9%
Rural Areas	0.365	32.0%	0.478	41.5%	0.567	49.0%	0.674	57.9%	0.824	70.5%
Urban Areas	1.301	90.3%	1.341	93.0%	1.378	95.4%	1.396	96.6%	1.397	96.5%
Pop. Evaluated	3.964	100.0%	3.991	100.0%	4.017	100.0%	4.039	100.0%	4.052	100.0%

44. In Figure 10, we present deployment estimates for fixed terrestrial 25/3 Mbps service and mobile 4G LTE service with a speed of at least 5/1 Mbps on Tribal lands. As of December 31, 2019, fixed terrestrial 25/3 Mbps services was deployed to over 79% of Americans on Tribal lands, almost 98% were covered by mobile 4G LTE at speeds of at least 5/1 Mbps, and almost 79% were covered by both services. The figures show variability in deployment across the Tribal lands categories, with the least deployment in Alaskan Villages.

Fig. 10
Deployment (Millions) of Fixed Terrestrial 25/3 Mbps and/or Mobile 4G LTE with a Minimum Advertised Speed of 5/1 Mbps on Tribal Lands (December 31, 2019)

		Fixed 25/3 Mbps		Mobile 4G LTE 5/1 Mbps		Fixed 25/3 Mbps and Mobile 4G LTE 5/1 Mbps		Fixed 25/3 Mbps or Mobile 4G LTE 5/1 Mbps	
	Pop. Evaluated	Pop.	% of Pop.	Pop.	% of Pop.	Pop.	% of Pop.	Pop.	% of Pop.
All Tribal Lands	4.052	3.20	79.1%	3.959	97.7%	3.196	78.9%	3.967	97.9%
Alaskan Villages	0.267	0.187	69.9%	0.208	78.0%	0.185	69.3%	0.210	78.6%
Hawaiian Home Lands	0.034	0.032	93.2%	0.034	99.9%	0.032	93.1%	0.034	100.0%
Lower 48 States	1.134	0.763	67.3%	1.104	97.3%	0.758	66.8%	1.109	97.8%
Tribal Statistical Areas	2.617	2.222	84.9%	2.613	99.9%	2.221	84.9%	2.614	99.9%

E. Adoption Data

45. Our assessment of adoption from 2015-2019 is based upon FCC Form 477 subscriber data that is collected at the census tract level and FCC Form 477 deployment data that is collected at the census block level. For this analysis, we aggregate data up to the geographic level reported in Figures 11 and 12, e.g., the United States, the tract level, or the county. We evaluate the adoption of fixed terrestrial services at speeds of 10/1 Mbps, 25/3 Mbps, 50/5 Mbps, 100/10 Mbps, and 250/25 Mbps. The reported adoption rates are the number of residential subscriptions divided by the number of households in the area where the FCC Form 477 deployment data indicate that fixed terrestrial services of at least the designated speed are deployed.

46. Figure 11 reports adoption rates based upon year-end data from 2015 to 2019 for the United States as a whole (excluding the U.S. Territories),[160] urban and non-urban core areas,[161] and Tribal lands. Figure 11 shows year-to-year increases in the adoption of broadband services across the vast majority of areas, including Tribal lands.

[160] We exclude data from the U.S. Territories when showing the five-year progression of deployment and adoption of broadband services because of anomalies in the historical data for Puerto Rico and the U.S. Virgin Islands, whose populations account for over 92% of the total combined population of the U.S. Territories. The historical data suggest a 21.7 percentage point increase in deployment between 2015 and 2016. *2020 Report*, 35 FCC Rcd at 8999, para. 28 & n.95. The year-end 2017 deployment data most likely significantly overstate deployment in Puerto Rico and the U.S. Virgin Islands at that time because the data do not reflect infrastructure damage caused by Hurricanes Maria and Irma. We include data from the U.S. Territories in figures that report data since 2018 only as we believe these FCC Form 477 data collections provide reliable estimates for the U.S. Territories.

[161] Subscriber data is reported at the census tract level. We aggregate deployment data up to the census tract to identify urban core and non-urban core areas. A census tract is designated as "Urban Core" if it has a land area less than three square miles and a population density of at least 1,000 people per square mile. A census tract is designated as "Non-Urban Core" if we have not designated the census tract as Urban Core.

Fig. 11
Overall Adoption Rate for Fixed Terrestrial Services at Different Speed Tiers

	2015	2016	2017	2018	2019
10/1 Mbps					
United States[162]	62.2%	66.3%	69.7%	73.3%	77.0%
Non-Urban Core Areas	55.8%	60.3%	63.5%	67.4%	71.8%
Urban Core Areas	67.0%	71.0%	74.7%	78.1%	81.4%
Tribal Lands	42.4%	43.1%	46.3%	51.2%	55.5%
Non-Urban Core Areas	36.1%	36.9%	40.4%	45.3%	50.1%
Urban Core Areas	56.8%	59.1%	62.3%	68.1%	71.1%
25/3 Mbps					
United States	48.1%	53.5%	60.2%	65.1%	69.4%
Non-Urban Core Areas	43.2%	48.9%	55.1%	59.9%	64.5%
Urban Core Areas	51.5%	56.9%	64.0%	69.2%	73.3%
Tribal Lands	31.7%	33.4%	37.9%	44.0%	46.5%
Non-Urban Core Areas	28.5%	30.3%	34.5%	38.7%	40.6%
Urban Core Areas	37.1%	39.4%	45.1%	56.1%	61.8%
50/5 Mbps					
United States	33.9%	44.4%	54.8%	60.6%	64.8%
Non-Urban Core Areas	27.8%	41.2%	50.8%	56.4%	60.9%
Urban Core Areas	38.0%	46.7%	57.7%	63.8%	67.7%
Tribal Lands	25.0%	28.9%	34.2%	37.8%	42.4%
Non-Urban Core Areas	20.4%	25.3%	30.9%	34.0%	38.7%
Urban Core Areas	32.0%	34.9%	40.5%	45.6%	50.3%
100/10 Mbps					
United States	16.7%	19.2%	29.6%	45.7%	50.9%
Non-Urban Core Areas	16.4%	17.9%	27.0%	44.3%	50.0%
Urban Core Areas	16.9%	20.0%	31.4%	46.6%	51.5%
Tribal Lands	7.4%	10.5%	18.3%	30.2%	36.2%
Non-Urban Core Areas	6.4%	9.8%	17.0%	26.4%	33.1%
Urban Core Areas	8.7%	11.6%	20.4%	37.3%	42.5%
250/25 Mbps					
United States	4.2%	1.8%	4.1%	5.5%	9.1%
Non-Urban Core Areas	6.7%	2.3%	4.1%	5.0%	8.3%
Urban Core Areas	3.1%	1.6%	4.1%	5.8%	9.7%
Tribal Lands	1.4%	1.8%	4.4%	7.5%	11.5%
Non-Urban Core Areas	1.7%	2.1%	4.5%	8.0%	11.8%
Urban Core Areas	0.2%	1.5%	4.3%	6.7%	11.0%

47. Figure 12 reports average county-level adoption rates for fixed terrestrial services against the quartile ranking for median household income, population density, the poverty rate, and the proportion of the population that resides in a rural area.[163] The data are further disaggregated by speed

[162] We present adoption data for each state, U.S. Territory, and the District of Columbia in Appendix H.

[163] This demographic analysis is based upon county level adoption rates and the Census Bureau's American Community Survey (ACS) Five-Year Estimates 2014-2018 for income and poverty measures for county-level data

(continued….)

tier.[164] In general, these data suggest that the average household adoption rate in a county increases with median household income and population density, and decreases with increases in the poverty rate and rural population rate.[165]

Fig. 12
Average County Overall Adoption Rate for Fixed Terrestrial Services by County Level Demographic Variable (December 31, 2019)[166]

	10/1 Mbps	25/3 Mbps	50/5 Mbps	100/10 Mbps	250/25 Mbps
Median Household Income					
First Quartile (Lowest Median Household Income)	38.4%	28.3%	23.4%	20.2%	4.7%
Second Quartile	51.6%	41.6%	36.4%	31.0%	6.0%
Third Quartile	58.8%	47.6%	42.2%	35.2%	6.2%
Fourth Quartile (Highest Median Household Income)	71.2%	61.3%	56.7%	43.8%	8.1%
Population Density					
First Quartile (Lowest Population Density)	48.8%	34.2%	26.8%	22.7%	8.0%
Second Quartile	43.9%	34.3%	30.1%	25.0%	4.8%
Third Quartile	55.1%	46.5%	42.6%	36.0%	5.0%
Fourth Quartile (Highest Population Density)	72.0%	63.6%	58.8%	46.1%	7.8%
Household Poverty Rate					

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for the states, District of Columbia, and Puerto Rico (income measures are not available for the other U.S. Territories). Median household income is based on 2018 data and is measured in 2018 Inflation-Adjusted Dollars. The household poverty rate is the proportion of households living below the poverty level. The ACS Five-Year Estimates for 2015-2019 will not be released until December 10, 2020. U.S. Census, *2019 Data Release Schedule* (Mar. 3, 2020), https://www.census.gov/programs-surveys/acs/news/data-releases/2019/release-schedule.html. Population Density is the total population residing in the county as of 2019 divided by the square miles of land in the county, where the estimate of land area is based upon the 2010 Census. The proportion of the population residing in a rural area is the total population residing in the county rural census block (based on the 2010 Census) divided by the total population in the county. A rural census block encompasses all population, housing, and territory not identified as an urban census block in the 2010 Census.

[164] We note that this analysis is based upon the best data currently available and may not accurately reflect how adoption may be associated with the subscriber's demographic data. Our data is based upon the subscriber data submitted by the providers, and we do not know the demographics of the providers' fixed broadband subscribers.

[165] The adoption of fixed terrestrial broadband varies across demographic groups, and households with less income are less likely to subscribe to a fixed broadband service for their home. *See*, Pew Research Center, Internet/Broadband Fact Sheet (June 12, 2019), https://www.pewresearch.org/internet/fact-sheet/internet-broadband/#who-has-home-broadband. Incomes tend to be lower in rural areas, and subscription to home broadband services is generally lower in rural areas. *See,* Michael J.R. Martin, Rural and Lower-Income Counties Lag Nation in Internet Subscription (Dec. 13, 2018), https://www.census.gov/library/stories/2018/12/rural-and-lower-income-counties-lag-nation-internet-subscription.html. Counties with a higher proportion of rural population will tend to have lower population density because fewer people live in these counties than in counties with more urban areas. In Figure 12, the quartile with the lowest population density will likely correspond to the quartile with the highest rural population rate. Thus, the observation that the average overall adoption rate for fixed terrestrial services increases with population density is akin to the observation that the average overall adoption rate for fixed terrestrial services decreases as the rural population rate increases.

[166] All data presented for the United States in Figure 12 exclude U.S. Territories other than Puerto Rico.

	10/1 Mbps	25/3 Mbps	50/5 Mbps	100/10 Mbps	250/25 Mbps
First Quartile (Lowest Household Poverty Rate)	67.2%	55.9%	50.9%	39.8%	7.6%
Second Quartile	59.4%	48.7%	43.4%	36.0%	6.7%
Third Quartile	52.7%	43.1%	38.5%	33.1%	6.5%
Fourth Quartile (Highest Household Poverty Rate)	40.7%	31.1%	26.0%	21.5%	4.3%
Rural Population Rate					
First Quartile (Lowest Rural Population Rate)	71.0%	62.3%	57.3%	44.9%	8.0%
Second Quartile	57.4%	47.8%	43.0%	36.1%	5.7%
Third Quartile	46.8%	37.0%	32.7%	27.7%	5.0%
Fourth Quartile (Highest Rural Population Rate)	44.6%	31.5%	25.2%	21.0%	6.5%

F. Schools and Classrooms Data

48. We continue the Commission's practice of measuring availability of advanced telecommunications capability in "elementary and secondary schools and classrooms"[167] using our long-term goal for broadband connectivity to schools of 1 Gbps per 1,000 students and staff, respectively.[168] According to the *2020 Connect K-12 Report*, the most recent comprehensive data available, 47% of school districts currently meet the goal, which is up from 38% in 2019.[169] Connected Nation also finds that 35% of the nation's 1,000 largest school districts and 78% of the nation's 1,000 smallest school districts meet the long-term goal.[170]

V. COMMISSION EFFORTS TO CLOSE THE DIGITAL DIVIDE

49. Since the *2020 Report*, the Commission has continued its efforts to encourage fixed and mobile providers to accelerate deployment of advanced telecommunications ability and close the digital divide. These efforts include taking action to remove barriers to wireline and wireless infrastructure investment, modernizing our universal service programs, and making more spectrum available for the commercial marketplace. In addition, the Commission has responded to the challenges posed to consumers and providers by the current COVID-19 pandemic, both by leveraging existing funding programs and standing up a new program to distribute funds allocated by Congress. As we discuss in detail below, much of our work remains ongoing, as we continue to work towards ensuring that all Americans, including those in rural areas, Tribal lands, and disaster-affected areas, have the benefits of high-speed broadband.

A. Removing Barriers to and Encouraging Broadband Investment

50. *Broadband Infrastructure Reforms*. In June 2020, the Commission issued a Declaratory Ruling clarifying its rules implementing section 6409(a) of the Spectrum Act and a Notice of Proposed

[167] 47 U.S.C. § 1302(b).

[168] *See Modernizing the E-Rate Program for Schools and Libraries*, WC Docket No. 13-184, Report and Order and Further Notice of Proposed Rulemaking, 29 FCC Rcd 8870, 8885, para. 34 (2014) (*2014 First E-Rate Order*). The *2020 K-12 Connect Report* measures whether 1 Mbps per-student connective is available, which is an equivalent measurement. *See 2020 K-12 Connect Report*, at 5.

[169] *2020 Connect K-12 Report*, at 5; *2020 Report*, 35 FCC Rcd at 9018, para. 53.

[170] Connect K-12, Digital Learning in Every Classroom, Every Day Requires High-Speed Internet, https://connectk12.org/national.

Rulemaking that sought comment on certain aspects of those rules.[171] The Commission sought to balance the need for wireless providers to have clear rules when they upgrade existing infrastructure with the need for state and local governments to enforce legitimate zoning requirements.[172] Specifically, the declaratory ruling clarified: (1) when the shot clock for an eligible facilities request commences, (2) what constitutes a "substantial change" in the physical dimensions of wireless infrastructure, and (3) the extent to which certain elements of a proposed modification to existing infrastructure affect the eligibility of that proposed modification for streamlined state or local government review.[173] The declaratory ruling also clarified that an environmental assessment is not required when the Commission and applicants proposing to build communications facilities have entered into a memorandum of agreement to mitigate effects on historic properties.[174] The *Section 6409 Notice of Proposed Rulemaking* sought comment on rule changes to better define the boundaries within which an applicant can excavate or deploy when making a modification under section 6409(a).[175]

51. On July 10, 2020, the Commission, the Advisory Council on Historic Preservation (ACHP), and the National Conference of State Historic Preservation Officers executed the *Second Amendment* to the *Nationwide Programmatic Agreement for the Collocation of Wireless Antennas* (Collocation NPA).[176] The amendment facilitates the collocation of wireless facilities on existing towers by eliminating review under section 106 of the National Historic Preservation Act[177] for certain collocations that involve a limited expansion beyond the boundaries of a tower site.[178]

52. The Commission has taken further actions to reduce barriers to deployment of advanced communications capability relating to access to poles. On July 29, 2020, the Wireline Competition Bureau clarified that the imposition of a "blanket ban" by a utility on attachments to any portion of a utility pole is inconsistent with the federal requirement that a "denial of access . . . be specific" to a particular request.[179] The Bureau also clarified that, while utilities and attachers have the flexibility to negotiate terms in their pole attachment agreements that differ from the requirements in the Commission's rules, a utility cannot use its significant negotiating leverage to require an attacher to give up rights to

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[171] *Implementation of State and Local Governments' Obligation to Approve Certain Wireless Facility Modification Requests Under Section 6409(a) of the Spectrum Act of 2012*, WT Docket No. 19-250, Declaratory Ruling and Notice of Proposed Rulemaking, 35 FCC Rcd 5977, 5979, para. 3 (2020) (*Section 6409 Declaratory Ruling and Notice*), pets. for review pending, *League of California Cities et al. v. FCC et al.*, No. 20-71765 (9th Cir. filed June 22, 2020); *City of Seattle, Washington et al. v. FCC et al.*, No. 20-1300 (D.C. Cir. filed Aug. 7, 2020); *City of Boston, Massachusetts et al. v. FCC et al.*, No. 20-1301 (D.C. Cir. filed Aug. 10, 2020); 47 U.S.C. § 1455(a). In addition, also in June 2020, the Commission released an Emergency Authorizations During COVID-19 Public Notice, which announced an electronic process for Commission licensees to apply for expedited section 106 review or for emergency authorization to resume standard review for qualifying critical infrastructure projects during this crisis. *Section 106 Emergency Authorizations During COVID-19*, Public Notice, 35 FCC Rcd 6517 (WTB 2020).

[172] *See Section 6409 Declaratory Ruling and Notice*, 35 FCC Rcd at 5977-79, paras. 1-2.

[173] *Id.* at 5979, 5982-6000, paras. 4, 11-44.

[174] *Id.* at 6000-03, paras. 45-50.

[175] *Id.* at 5979-80, 6003-04, paras. 5, 51-56.

[176] *See Wireless Telecommunications Bureau Announces Execution of Second Amendment to the Nationwide Programmatic Agreement for the Collocation of Wireless Antennas*, Public Notice, 35 FCC Rcd 7150 (WTB 2020); 47 CFR Part 1, Appx. B.

[177] 54 U.S.C. § 300101 *et seq*.

[178] *Wireless Telecommunications Bureau Announces Execution of Second Amendment to the Nationwide Programmatic Agreement for the Collocation of Wireless Antennas*, Public Notice, 35 FCC Rcd 7150 (WTB 2020).

[179] *Accelerating Wireline Broadband Deployment by Removing Barriers to Infrastructure Investment*, WC Docket No. 17-84, Declaratory Ruling, 35 FCC Rcd 7936, 7936-37, 7938-43, paras. 3, 6-13 (WCB 2020) (*CTIA Pole Attachment Declaratory Ruling*); 47 CFR § 1.1403(b).

which the attacher is entitled under the rules without the attacher obtaining a corresponding benefit.[180]

53. In October 2020, the Commission adopted a Report and Order that further streamlined the section 6409(a) approval process for state and local governments' review of wireless communication collocations and tower modifications that involve limited ground excavation or deployment of transmission equipment.[181] The Report and Order revised the definition of "substantial change" to provide that the modification of an existing tower outside the public rights-of-way that entails ground excavation or deployment of transmission equipment up to 30 feet in any direction outside the boundaries of a site will be eligible for streamlined processing under section 6409(a).[182] The Report and Order also revised the definition of a "site" in a manner that will ensure that the site boundaries from which limited expansion is measured appropriately reflect prior state or local government review and approval.[183]

54. In November 2020, the Wireline Competition Bureau preempted legal requirements imposed by several cities in Missouri to the extent they permit "duplicative rights-of-way fees based solely on passive ownership of facilities used to provide telecommunications services."[184] Under section 253(d), the Commission is required by Congress to preempt any requirements that effectively prohibit an entity from providing telecommunication services.[185] In the *Bluebird Declaratory Ruling*, the Bureau found that the cities' legal requirements could increase Bluebird's right-of-way costs by 100%, and that the record showed that such a cost increase would "effectively prohibit[] Bluebird from providing its services in violation of section 253(a)."[186]

55. *Restoring Internet Freedom*. In the *Restoring Internet Freedom Order*, the Commission ended heavy-handed, utility-style Title II regulation of the Internet and returned broadband Internet access service to its long-standing classification as an information service under Title I, the light-touch framework under which the Internet developed and flourished.[187] On October 1, 2019, in *Mozilla Corp. v. FCC*, the D.C. Circuit upheld the vast majority of the *Restoring Internet Freedom Order*, remanding three discrete issues for further consideration—namely, the effect of that *Order* on: (1) public safety; (2) the regulation of pole attachments; and (3) universal service support for low-income consumers through the Lifeline program.[188] On October 27, 2020, the Commission adopted an order addressing the court's limited remand.

56. In the *Restoring Internet Freedom Remand Order*, the Commission considered the three

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[180] *CTIA Pole Attachment Declaratory Ruling*, 35 FCC Rcd at 7944-47, paras. 14-18.

[181] *Implementation of State and Local Governments' Obligation to Approve Certain Wireless Facility Modification Requests Under 6409(a) of the Spectrum Act of 2012*, WT Docket No. 19-250, Report and Order, 35 FCC Rcd 13188 (2020) (*Section 6409 Report and Order*).

[182] *Section 6409 Report and Order* at 13192, 13296, paras. 9, 17; 47 CFR § 1.6100(b)(7) ("A modification substantially changes the physical dimensions of an eligible support structure if it meets any of the following criteria: . . . (iv) It entails any excavation or deployment outside the current site . . . .").

[183] *Section 6409 Report and Order*, 35 FCC Rcd at 13200-01, paras. 25-28; 47 CFR § 1.6100(b)(6) (defining "site").

[184] *Missouri Network Alliance, LLC d/b/a Bluebird Network and Uniti Leasing MW LLC*; *Petition for Preemption and Declaratory Ruling*, WC Docket No. 20-46, Declaratory Ruling, 35 FCC Rcd 12811, at 12811, para. 1 (WCB 2020) (*Bluebird Declaratory Ruling*).

[185] 47 U.S.C. § 253(a), (d).

[186] *Bluebird Declaratory Ruling*, 35 FCC Rcd at 12812, para. 2.

[187] *Restoring Internet Freedom*, WC Docket Nos. 17-108, 17-287, and 11-42, Declaratory Ruling, Report and Order, and Order, 33 FCC Rcd 311 (2017) (*Restoring Internet Freedom Order*).

[188] *Restoring Internet Freedom*; *Bridging the Digital Divide for Low-Income Consumers*; *Lifeline and Link Up Reform and Modernization*, WC Docket Nos. 17-108, 17-287 & 11-42, Order, 35 FCC Rcd 12328, 12329, para. 2 (2020) (*Restoring Internet Freedom Remand Order*); *see Mozilla Corp. v. FCC*, 940 F.3d 1 (D.C. Cir. 2019) (*Mozilla*); *see also Restoring Internet Freedom Order*, 33 FCC Rcd 311.

issues remanded by the court and found no reason to depart from its earlier conclusions.[189] First, the Commission found that neither its decision to return broadband Internet access service to its long-standing classification as an information service, nor its subsequent decision to eliminate the conduct-based open Internet rules, is likely to adversely impact public safety.[190] To the contrary, the Commission concluded that the regulatory certainty of the *Restoring Internet Freedom Order* has promoted an environment that encourages robust investment in broadband networks and facilities that can be used for many purposes, including public safety purposes.[191] Second, the Commission concluded that the overall benefits of classifying broadband Internet access service as an information service outweigh the limited potential negative effects resulting from the loss of section 224 rights, and, by extension, the Commission's pole attachment rules, for broadband-only ISPs.[192] The Commission considered the drawbacks to be limited in part because the vast majority of ISPs also provide either cable or telecommunications services over their networks, and therefore remain able to take advantage of the rights guaranteed by section 224 notwithstanding the reclassification of broadband Internet access service as an information service.[193] Finally, the Commission concluded it has legal authority under section 254(e) of the Act to provide Lifeline support to Eligible Telecommunications Carriers that provide broadband service over broadband-capable networks that support voice service.[194] The *Restoring Internet Freedom Remand Order* provided valuable certainty to policies that have fueled broadband deployment and are closing the digital divide.[195]

57. *Unbundled Network Elements*. Incumbent LECs filed a petition in May 2018 seeking forbearance from obligations to share their networks and retail telecommunications services on an avoided-cost wholesale basis with competitors.[196] These unbundling and resale obligations were established in the Telecommunications Act of 1996 to encourage competition within the local telecommunications marketplace.[197] Where competition has flourished, Congress "encouraged the Commission to use forbearance and other means to encourage deployment of advanced telecommunications capability and remove barriers to infrastructure deployment."[198]

58. In response to the May 2018 petition, the Commission granted price cap incumbent LECs unbundling relief for DS1 and DS3 interoffice transport[199] and for analog loops used solely to provide legacy telephone service, specifically Time Division Multiplexing service provided over narrowband

[189] *Restoring Internet Freedom Remand Order*, 35 FCC Rcd at 12329, para. 2.

[190] *Id.* at 12348-68, paras. 37-66.

[191] *Id.* at 12336, para. 20.

[192] *Id.* at 12370-77, paras. 71-81; 47 U.S.C. § 224; 47 CFR Part 1, Subpart J.

[193] *Id.* at 12371-72, para. 73.

[194] *Id.* at 12378, para. 82; 47 U.S.C. § 254(e).

[195] *See 2018 Report*, 33 FCC Rcd 1660, 1661-62, paras. 4-5, 1707, para. 92.

[196] Petition of USTelecom for Forbearance Pursuant to 47 U.S.C. § 160(c) to Accelerate Investment in Broadband and Next-Generation Networks, WC Docket No. 18-141 (filed May 4, 2018).

[197] The Telecommunications Act of 1996, Pub. L. No. 104-104, 110 Stat. 56 (codified at 47 U.S.C. § 151 *et seq.*).

[198] *Modernizing Unbundling and Resale Requirements in an Era of Next-Generation Networks and Services*, WC Docket No. 19-308, Report and Order, 35 FCC Rcd 12425, 12429-30, para. 12 (2020) (*2020 UNE Order*).

[199] *Petition of USTelecom for Forbearance Pursuant to 47 U.S.C. § 160(c) to Accelerate Investment in Broadband and Next-Generation Networks et al.*, WC Docket No. 18-141 et al., Report and Order on Remand and Memorandum Opinion and Order, 34 FCC Rcd 5767 (2019).

copper wires[200] as well as resale obligations typically used to provide the same legacy service. The Commission later sought comment on broader reforms.[201] In October 2020, the Commission adopted an Order eliminating unbundling requirements and resale obligations in areas where they stifle technology transitions but preserving them in areas where they are still needed to promote competition.[202]

59. The *2020 UNE Order* eliminated unbundling requirements for: enterprise DS1 and DS3 loops in areas with sufficient competition; DS0 loops and sub-loops in densely populated areas; voice-grade narrowband loops, multiunit premise subloops, and network interface devices nationwide; and dark fiber transport within one-half mile of competitive fiber networks.[203] Each element has an appropriate transition period to avoid harming consumers and stranding investment. In addition, the Order forbore from the avoided-cost resale obligation where it continues to exist.[204]

60. *Broadband Deployment Advisory Committee*. The Chairman re-chartered the BDAC, a federal advisory committee, for a second two-year term effective March 1, 2019.[205] The BDAC works to craft recommendations for the Commission on ways to accelerate the deployment of broadband by reducing and removing regulatory barriers to infrastructure investment and strengthening existing broadband networks in communities across the country. It serves as a forum for interested stakeholders to exchange ideas and develop recommendations to the Commission on broadband deployment, which in turn enhances the Commission's ability to carry out its statutory responsibility to encourage the deployment of broadband to all Americans.[206]

61. The re-chartered BDAC is organized into three working groups, each with a distinct purpose. The Disaster Response and Recovery Working Group was originally charged with recommending measures to improve resiliency of broadband infrastructure before a disaster occurs, and strategies that can be used during and after the response to a disaster to minimize broadband network downtime.[207] On March 27, 2020, the Disaster Response and Recovery Working Group presented a report and recommendations in response to its charges, which the BDAC approved.[208] It has since been charged, on April 16, 2020, with assisting the BDAC in documenting the strategies and solutions that stakeholders are developing and implementing in real time to address the deployment-related challenges presented by the COVID-19 pandemic.[209] The Broadband Infrastructure Deployment Job Skills and

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[200] *Petition of USTelecom for Forbearance Pursuant to 47 U.S.C. § 160(c) to Accelerate Investment in Broadband and Next-Generation Networks*, WC Docket No. 18-141, Memorandum Opinion and Order, 34 FCC Rcd 6503 (2019), *aff'd*, *Comptel et al. v. FCC*, No. 19-1164 (D.C. Cir. Nov. 3, 2020).

[201] *Modernizing Unbundling and Resale Requirements in an Era of Next-Generation Networks and Services*, WC Docket No. 19-308, Notice of Proposed Rulemaking, 34 FCC Rcd 11290 (2019).

[202] *2020 UNE Order*, 35 FCC Rcd at 12426, para. 3.

[203] *Id.*

[204] *Id.* at 12497-98, para. 145.

[205] *FCC Announces the Re-Charter of the Broadband Deployment Advisory Committee and Solicits Nominations for Membership*, GN Docket No. 17-83, Public Notice, 33 FCC Rcd 11747 (2018).

[206] *FCC Announces Membership and First Meeting of the Re-Chartered Broadband Deployment Advisory Committee*, GN Docket No. 17-83, Public Notice, 34 FCC Rcd 3251, 3251 (2019) (*2019 Re-Chartered BDAC PN*).

[207] *Id*.

[208] Broadband Deployment Advisory Cmte., Disaster Response & Recovery Working Grp., Report and Recommendations (Mar. 27, 2020), https://www.fcc.gov/sites/default/files/bdac-disaster-response-recovery-approved-rec-03272020.pdf.

[209] *FCC Chairman Pai Announces New Charges and Solicits Additional Nominations for the Disaster Response and Recovery Working Group of the Broadband Deployment Advisory Committee to Address Challenges Presented by COVID-19*, GN Docket No. 17-83, Public Notice, 35 FCC Rcd 3553 (2020).

Training Opportunities Working Group is charged with making recommendations on ways to make job skills training more widely available and to improve development opportunities for the broadband infrastructure deployment workforce.[210] The Increasing Broadband Investment in Low-Income Communities Working Group is tasked with identifying new ways to encourage the deployment of high-speed broadband infrastructure and services to low-income communities.[211]

62. The BDAC has worked diligently to fulfill the charges given to it by the Commission. The re-chartered BDAC has met three times in 2020, during which the BDAC members have discussed their charges and the progress the working groups have made toward developing final reports for consideration and approval by the full BDAC.[212] At its October 29, 2020 meeting, the BDAC considered and voted on reports and recommendations from its three working groups: Increasing Broadband Investment in Low-Income Communities (Low-Income), Broadband Infrastructure Deployment Job Skills and Training Opportunities (Job Skills), and Disaster Response and Recovery (Disaster Response). The Job Skills working group and Disaster Response working group reports were considered and approved by the full BDAC, while the Low-Income working group report was considered but not voted on or approved, pending further revisions.[213]

63. *Precision Agriculture Connectivity Task Force*. Consistent with the Agriculture Improvement Act of 2018,[214] Chairman Pai chartered the Task Force for Reviewing the Connectivity and Technology Needs of Precision Agriculture in the United States under the Federal Advisory Committee Act for a two-year term to make policy recommendations on how to accelerate broadband deployment on agricultural lands.[215] The Precision Agriculture Task Force is examining policy, regulatory, and technical solutions to encourage the adoption of broadband on farms and ranches and to promote the advancement

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[210] *2019 Re-Chartered BDAC PN* at 3251.

[211] *Id.* Announcements concerning the membership of these working groups can be found on the Commission's BDAC page: https://www.fcc.gov/broadband-deployment-advisory-committee. *See FCC Announces Membership of the Broadband Deployment Advisory Committee's Disaster Response and Recovery Working Group*, GN Docket No. 17-83, Public Notice, 33 FCC Rcd 11006 (2018); *FCC Announces the Membership of Two Broadband Deployment Advisory Committee Working Groups*, GN Docket No. 17-83, Public Notice, 34 FCC Rcd 5226 (2019); *FCC Announces Additional Membership of Broadband Deployment Advisory Committee Disaster Response and Recovery Working Group*, GN Docket No. 17-83, Public Notice, 35 FCC Rcd 5669 (2020).

[212] *FCC Announces the Next Meeting of the Broadband Deployment Advisory Committee*, GN Docket No. 17-83, Public Notice, 35 FCC Rcd 1959 (2020) (March 27, 2020 meeting); *FCC Announces the Next Meeting of the Broadband Deployment Advisory Committee*, GN Docket No. 17-83, Public Notice, 35 FCC Rcd 6442 (2020) (July 29, 2020 meeting); *FCC Announces the Next Meeting of the Broadband Deployment Advisory Committee*, GN Docket No. 17-83, Public Notice, 35 FCC Rcd 10657 (2020) (Oct. 29-30, 2020 meeting). Video from each of the BDAC meetings and links to related materials can be found on the Commission's BDAC page: https://www.fcc.gov/broadband-deployment-advisory-committee.

[213] The October BDAC meeting was held by conference call and was available live to the public over the Internet. Materials from the meeting can be found on the Commission's website: https://www.fcc.gov/news-events/events/2020/10/bdac-meeting-october-2020.

[214] Agriculture Improvement Act of 2018, Pub. L. No. 115-334, 132 Stat. 4490, § 12511(b)(2) (2018 Farm Bill). The Precision Agriculture Connectivity Task Force will perform duties and submit reports consistent with section 12511 of the 2018 Farm Bill and in consultation with the Department of Agriculture in successive terms until the Task Force ends on January 1, 2025.

[215] *FCC Announces the Establishment of the Task Force for Reviewing Connectivity and Technology Needs of Precision Agriculture in the United States and Seeks Nominations for Membership*, Public Notice, 34 FCC Rcd 5057 (2019) (*Precision Agriculture Task Force Public Notice*); Task Force for Reviewing Connectivity & Tech. Needs of Precision Agric. in the U.S., *Charter* (Dec. 4, 2019), https://www.fcc.gov/sites/default/files/precision-ag-task-force-charter-12042019.pdf.

of precision agriculture in the United States.[216]

64. In November 2019, Chairman Pai, in consultation with the Secretary of Agriculture, appointed fifteen members of the Task Force, including agricultural producers representing diverse geographic regions and farm sizes, equipment manufacturers, and industry representatives, as well as Tribal, state, and local government representatives.[217] The Precision Agriculture Task Force met four times in 2020.[218] Four working groups continue to assist the Task Force in carrying out its work: (1) Mapping and Analyzing Connectivity on Agricultural Lands; (2) Examining Current and Future Connectivity Demand for Precision Agriculture; (3) Encouraging Adoption of Precision Agriculture and Availability of High-Quality Jobs on Connected Farms; and (4) Accelerating Broadband Deployment on Unserved Agricultural Lands.[219] At its October 28, 2020 meeting, the Task Force considered and voted on reports from its Mapping and Analyzing Connectivity on Agricultural Lands and Examining Current and Future Connectivity Demand for Precision Agriculture working groups, which were approved by the full Task Force. The Task Force also considered and approved an initial report from the Encouraging Adoption of Precision Agriculture and Availability of High-Quality Jobs on Connected Farms working group.[220]

B. Universal Service Support

65. Universal service also plays an essential role in deploying broadband networks, particularly in rural, insular, and hard-to-serve areas. The Commission's Universal Service Fund provides funding to increase the availability of telecommunication services and broadband Internet access services for low-income households, rural health care providers, schools and libraries, and consumers in high-cost areas.[221] As part of its oversight responsibilities, the Commission routinely considers ways to maximize the effect of available Universal Service Fund funding to support broadband deployment.[222]

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[216] *Precision Agriculture Task Force Public Notice*, 34 FCC Rcd at 5057.

[217] *FCC Announces the Membership of and First Meeting of the Task Force for Reviewing the Connectivity and Technology Needs of Precision Agriculture in the United States*, GN Docket No. 19-329, Public Notice, 34 FCC Rcd 10493 (2019) (*Precision Agriculture Task Force Membership Public Notice*).

[218] *Id.* (setting Dec. 9, 2019 as the date of its first meeting); *FCC Announces the Second Meeting of the Task Force for Reviewing the Connectivity and Technology Needs of Precision Agriculture in the United States on March 25, 2020*, GN Docket No. 19-329, Public Notice, 35 FCC Rcd 2038 (2020); *FCC Announces the Third Meeting of the Task Force for Reviewing the Connectivity and Technology Needs of Precision Agriculture in the United States on March 25, 2020*, GN Docket No. 19-329, Public Notice, 35 FCC Rcd 6327 (2020); *FCC Announces the Fourth Meeting of the Task Force for Reviewing the Connectivity and Technology Needs of Precision Agriculture in the United States on October 28, 2020*, GN Docket No. 19-329, Public Notice, 35 FCC Rcd 10419 (2020).

[219] *Precision Agriculture Task Force Membership Public Notice*, 34 FCC Rcd at 10493; *FCC Announces the Membership of the Working Groups of the Task Force for Reviewing the Connectivity and Technology Needs of Precision Agriculture in the United States*, GN Docket No. 19-329, Public Notice, 5 FCC Rcd 2053 (2020).

[220] The October Task Force meeting was held electronically and was open to the public via livestream. Materials from the meeting can be found on the Commission's website: https://www.fcc.gov/news-events/events/2020/10/precision-ag-connectivity-task-force-meeting-october-2020.

[221] 47 U.S.C. § 254.

[222] *Connect America Fund*; *ETC Annual Reports and Certifications*; *Establishing Just and Reasonable Rates for Local Exchange Carriers*; *Developing a Unified Intercarrier Compensation Regime*; WC Docket Nos. 10-90, 14-58, and 07-135, CC Docket No. 01-92; Report and Order, Third Order on Reconsideration, and Notice of Proposed Rulemaking, 33 FCC Rcd 2990, 2992, para. 4 (2018) (taking several steps to increase broadband deployment in rural areas through the High Cost program, including maximizing available funding for broadband networks); *Promoting Telehealth in Rural America*, WC Docket No. 17-310, Report and Order, 33 FCC Rcd 6574, 6575, para. 3 (2018) (*Telehealth Report and Order*) (increasing the funding cap for the Rural Healthcare program to $571

(continued….)

66. *High-Cost Support Reform.* By both expanding the use of auctions and improving current programs, the Commission has continued its efforts to reform the manner in which universal service high-cost support is distributed to deploy broadband to rural areas. The Commission has successfully conducted the Connect America Fund Phase II auction to award funding to service providers that commit to offer voice and broadband services to fixed locations in unserved high-cost areas. In 2018, the Phase II auction awarded more than $1.488 billion over 10 years to 103 winning bidders to serve more than 713,000 rural homes and businesses.[223] The Commission began authorizing Phase II Auction funding in May 2019,[224] authorizing a total of 16 waves of support through November 12, 2020, a process that continues.[225] As of November 12, 2020, the Commission has authorized a total of nearly $1.5 billion in Phase II auction funding, which is expanding connectivity to nearly 703,000 homes and small businesses nationwide.[226] Funding rounds will continue until the authorization process is complete.

67. In January 2020, the Commission established the Rural Digital Opportunity Fund, which will provide up to $20.4 billion in two phases to expand broadband in unserved rural areas, representing the Commission's biggest single step to date toward closing the rural digital divide.[227] Phase I of the Rural Digital Opportunity Fund will allocate up to $16 billion in funding over the next decade, targeting areas that current data show are wholly unserved by 25/3 Mbps broadband and voice, where Commission staff estimate as many as 10.25 million unserved Americans live and work.[228] On October 13, 2020, the Commission announced that 386 applicants were qualified to bid.[229] The Phase I auction began on October 29, 2020, using a multi-round, reverse auction that favors bids offering faster services with lower latency and encourages intermodal competition to ensure that the greatest possible number of Americans will be connected to the best possible networks, all at a competitive cost.[230] Phase II of the Rural Digital Opportunity Fund will incorporate the granular, precise broadband availability maps being developed in the Commission's *Digital Opportunity Data Collection* proceeding to allocate at least $4.4 billion to

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million to prevent pro-rata funding reductions that could have disproportionately affected rural health care providers, especially those in Alaska).

[223] *Connect America Fund Phase II Auction Scheduled for July 24, 2018 Notice and Filing Requirements and Other Procedures for Auction 903*, AU Docket No. 17-182, WC Docket No. 10-90, Public Notice, 33 FCC Rcd 1428 (2018); *220 Applicants Qualified to Bid in the Connect America Fund Phase II Auction (Auction 903)*; *Bidding to Begin on July 24, 2018*, AU Docket No. 17-182, WC Docket No. 10-90, Public Notice, 33 FCC Rcd 6171 (2018) (announcing the qualified bidders for the auction and confirming timing); *Connect America Fund Phase II Auction (Auction 903) Closes*; *Winning Bidders Announced*, AU Docket No. 17-182, WC Docket No. 10-90, Public Notice, 33 FCC Rcd 8257 (2018).

[224] Press Release, FCC, FCC Authorizes First Wave of Funding for Rural Broadband from Connect America Fund Auction (May 14, 2019), https://docs.fcc.gov/public/attachments/DOC-357434A1.pdf.

[225] Press Release, FCC, FCC Authorizes Over $5.2 Million for Broadband Deployment To Rural Areas in Mississippi (Sept. 2, 2020), https://docs.fcc.gov/public/attachments/DOC-366631A1.pdf; *Connect America Fund Phase II Auction Support for 6 Winning Bids Ready to Be Authorized*, AU Docket No. 17-182, WC Docket No. 10-90, Public Notice (WCB Nov. 12, 2020) (16th wave).

[226] *Id*.

[227] *Rural Digital Opportunity Fund*; *Connect America Fund*, WC Docket Nos. 19-126 and 10-90, Report and Order, 35 FCC Rcd 686, 687, at para. 2 (2020) (*Rural Digital Opportunity Fund Order*).

[228] *Id.* at 689-90, para. 8.

[229] *386 Applicants Qualified to Bid in the Rural Digital Opportunity Fund Phase I Auction (Auction 904)*; *Bidding to Begin on October 29, 2020*, AU Docket No. 20-34, WC Docket Nos. 19-126 and 10-90, Public Notice, 35 FCC Rcd 11356, 11356, para. 1 (OEA & WCB Oct. 13, 2020), https://docs.fcc.gov/public/attachments/DA-20-1187A1.pdf.

[230] *Rural Digital Opportunity Fund Order*, 35 FCC Rcd at 688, 694-95, paras. 5, 17-18; Press Release, FCC, FCC Announces Kickoff of Groundbreaking $16 Billion Rural Digital Opportunity Fund Phase I Auction (Oct. 29, 2020), https://docs.fcc.gov/public/attachments/DOC-367851A1.pdf.

target unserved locations within partially served areas, as well as any areas not won in Phase I.[231] The Commission also took steps in the *Rural Digital Opportunity Fund Order* to directly target broadband deployment in census blocks on rural Tribal lands. Specifically, the Commission adopted rules effectively increasing the auction reserve price for census blocks on Tribal lands, which makes more support available compared to most non-Tribal census blocks eligible for the auction, and makes additional locations on Tribal lands eligible for the auction.[232]

68. In September 2019, the Commission approved nearly $950 million in Stage 2 funding for the Uniendo a Puerto Rico and Connect USVI Funds to improve, expand, and harden communications networks in Puerto Rico and the U.S. Virgin Islands that were damaged and destroyed during the 2017 hurricane season.[233] To that end, the Commission allocated more than $500 million over 10 years for fixed broadband support in Puerto Rico,[234] and more than $180 million over 10 years in support for fixed networks in the U.S. Virgin Islands.[235] The Commission is awarding support for fixed broadband through a competitive process in which service providers bid to serve every location in each covered area with storm-hardened networks at up to gigabit speeds.[236]

69. On November 2 and November 16, 2020, the Commission announced the results of the competitive bidding process for the Uniendo a Puerto Rico Stage 2 fixed support and the Connect USVI Stage 2 fixed support.[237] As a result, all of the more than 1.2 million eligible locations in Puerto Rico will get access to at least 100/10 Mbps broadband, and nearly a third will gain access to gigabit speeds.[238] In the U.S. Virgin Islands, broadband at gigabit speeds will be available to all of the more than 46,000 eligible locations.[239] Further, as part of its efforts to promote robust voice and broadband in the territories, the Commission authorized $258.8 million to expand, improve, and harden mobile broadband networks in Puerto Rico and U.S. Virgin Islands—including the first universal service funding targeted specifically for 5G deployment.[240]

70. The Commission has also continued its work to ensure universal access to mobile services. In April 2020, the Commission adopted a notice of proposed rulemaking proposing to establish a "5G Fund for Rural America" to retarget universal service funding for mobile broadband and voice in

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[231] *Rural Digital Opportunity Fund Order*, 35 FCC Rcd at 688, 690, paras. 5, 9.

[232] *Id*. at 694, para. 16.

[233] *The Uniendo a Puerto Rico Fund and the Connect USVI Fund*; *Connect America Fund*; *ETC Annual Reports and Certifications*, WC Docket Nos. 18-143 et al., Report and Order and Order on Reconsideration, 34 FCC Rcd 9109, 9110, para. 3 (2019) (*2019 Uniendo a Puerto Rico and Connect USVI Funds Order*).

[234] *Id.* at 9146, para. 67.

[235] *Id*. at 9163, para. 102.

[236] *Id.* at 9114-43, paras. 11-66.

[237] *Wireline Competition Bureau Announces Winning Applicants for Uniendo a Puerto Rico Fund Stage 2 Competitive Process*, WC Docket Nos. 18-143 and 10-90, Public Notice, 35 FCC Rcd 12699 (WCB 2020) (*Uniendo a Puerto Rico Fund Stage 2 Winning Applicant Public Notice*); *Wireline Competition Bureau Announces Winning Applicants for the Connect USVI Fund Stage 2 Competitive Process*, WC Docket Nos. 18-143 and 10-90, Public Notice, 35 FCC Rcd 12921 (WCB Nov. 16, 2020) (*Connect USVI Fund Stage 2 Winning Applicant Public Notice*).

[238] *Uniendo a Puerto Rico Fund Stage 2 Winning Applicant Public Notice*, 35 FCC Rcd at 12699, para. 1.

[239] *Connect USVI Fund Stage 2 Winning Applicant Public Notice*, 35 FCC Rcd at at 12921, para. 1.

[240] *Wireline Competition Bureau Authorizes Stage 2 Mobile Support for Certain Providers Participating in the Uniendo a Puerto Rico Fund and the Connect USVI Fund*, WC Docket Nos.. 18-143 and 10-90, Public Notice, 35 FCC Rcd 6321 (WCB 2020); *Wireline Competition Bureau Authorizes Stage 2 Mobile Support for Viya in the U.S. Virgin Islands*, WC Docket Nos. 18-143 and 10-90, Public Notice, 35 FCC Rcd 11555 (WCB 2020).

high cost areas and support deployment of advanced networks in rural areas.[241] And in October 2020, the Commission adopted a Report and Order establishing the 5G Fund rules that will use a multi-round reverse auction to distribute a total of $9 billion through the Universal Service Fund across rural America for voice and 5G wireless broadband connectivity.[242] Phase I of the auction will make $8 billion available to support 5G deployment in rural areas that are unlikely to see unsubsidized deployment of 5G-capable networks,[243] while Phase II will make at least $1 billion available to facilitate connected precision agriculture technologies in high cost and hard to serve areas.[244] The *5G Fund Report and Order* will also make $680 million of Phase I funds available to support networks serving eligible areas in Tribal lands.[245] Furthermore, the *5G Fund Report and Order* adopted a framework to determine which areas will be eligible for 5G Fund support through improved mobile broadband coverage data that will be gathered through the Commission's *Digital Opportunity Data Collection* proceeding and adopted an adjustment factor to ensure that sufficient support will be available to the hardest-to-serve areas such as those with rugged terrain or sparse populations.[246]

71. *Connected Care Pilot Program*. On March 31, 2020, the Commission adopted a Report and Order establishing a three-year, up to $100 million Connected Care Pilot Program to help defray the cost of bringing telehealth services directly to patients, with a primary emphasis on low-income patients and veterans.[247] Eligible health care providers selected to participate in the Pilot Program will receive an 85% discount on qualifying broadband connectivity for broadband-enabled telehealth services that connect patients directly to their health care providers, as well as other information services used to provide connected care services and certain network equipment.[248] Data gathered through the Pilot Program will be used to analyze how Universal Service Fund funds can support health care provider and patient use of connected care services and the possible benefits that support of broadband service for connected care may bring.[249] On September 3, 2020, the Wireline Competition Bureau released a Public Notice providing guidance to assist prospective applicants in preparing to apply for the Pilot Program, including information about eligible funding, eligible health care providers, requesting an eligibility determination before filing an FCC Form 460, and information required on applications.[250] The application filing window for the Pilot Program is open from November 5 to December 7, 2020.[251]

72. *Rural Telehealth Initiative.* In August 2020, the Commission, the U.S. Department of Health and Human Services, and the U.S. Department of Agriculture signed a Memorandum of Understanding to work together on the Rural Telehealth Initiative, a joint effort to collaborate and share

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[241] *See 5G Fund NPRM and Order*, 35 FCC Rcd at 3995-96, para. 1.

[242] *Establishing a 5G Fund for Rural America*, GN Docket No. 20-32, Report and Order, 35 FCC Rcd 12174, 12176, para. 4 (2020) (*5G Fund Report and Order*).

[243] *See id.* at 12184, 12185, 12187, paras. 22, 28, 31.

[244] *Id.* at 12187, para. 31.

[245] *Id.* at 12188, para. 35.

[246] *See id.* at 12176, 12179-81, paras. 4, 11-16; *see also generally* WC Docket No. 19-195.

[247] *Promoting Telehealth for Low-Income Consumers*; *COVID-19 Telehealth Program*, WC Docket Nos. 18-213 and 20-89, Report and Order, 35 FCC Rcd 3366, 3368-69, para. 5 (WCB 2020) (*Promoting Telehealth for Low-Income Consumers Order*).

[248] *Id*. at 3384-85, 3397, paras. 38, 55.

[249] *Id*. at 3368-69, para. 5.

[250] *Wireline Competition Bureau Provides Additional Information Concerning the Connected Care Pilot Program*, WC Docket No. 18-213, Public Notice, 35 FCC Rcd 9408 (WCB 2020).

[251] Wireline Competition Bureau Announces Connected Care Pilot Program Application Filing Window Opening, WC Docket No. 18-213, Public Notice, 35 FCC Rcd 12751 (WCB 2020).

information to address health disparities, resolve service provider challenges, and promote broadband services and technology to rural areas in America.[252] The agencies have started a cross-cutting, multi-Department Rural Task Force to look across the relevant Administration programs and provide a path forward for health care in rural America, recognizing particular needs in technology, infrastructure, and regulatory flexibility to provide health care tailored to these communities' needs.[253] This Task Force will regularly meet to consider future recommendations or guidelines for this effort and exchange agency expertise, scientific and technical information, data, and publications.

73. *Rural Health Care Program*. On October 19, 2020, the Wireline Competition Bureau released an Order waiving the budget cap for certain upfront and multi-year payments in the Rural Health Care Program's Healthcare Connect Fund in order to use already available money to fully fund all eligible services requested in Funding Year 2020.[254] As a result, more than $800 million is available in the current funding year to fund the connectivity needs of rural health care providers, more than double the available funding when the Commission first increased the budget cap in 2018.

74. *Improving Broadband Deployment Data*. Since the *2020 Broadband Deployment Report*, the Commission has continued to make progress establishing the Digital Opportunity Data Collection, a new data collection for collecting fixed broadband data to better pinpoint where broadband is available to consumers and where service is lacking, as well as in implementing the Broadband DATA Act.[255] In the August 2020 *Digital Opportunity Data Collection Order and Second Further Notice*, the Commission took the next step in developing the new broadband coverage maps by adopting specific coverage reporting and disclosure requirements for fixed and mobile broadband providers, filing and certification requirements, measures for determining the accuracy of broadband availability data (including audits and collecting crowdsourced data), standards for collecting and incorporating verified data for use in the coverage maps from governmental entities and certain third parties, and establishing the Broadband Serviceable Location Fabric.[256] The Commission also sought comment on several narrow issues relating to implementing the challenge and verification processes for coverage data, implementing the Broadband Serviceable Location Fabric, and certain other specific requirements of the Broadband DATA Act outside the scope of the *Digital Opportunity Data Collection Order*.[257]

C. Access to Spectrum

75. Since the last Report, the Commission has made available significant amounts of spectrum in the low-, mid-, and high-frequency bands for mobile providers to develop and deploy new technologies like 5G and to support existing 4G LTE networks.

76. With respect to low-band spectrum, the Commission successfully met the July 2020 deadline established for transitioning television stations from their pre-auction channel assignments in the 600 MHz band following the broadcast incentive auction.[258] The completion of this transition makes all

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[252] *Memorandum of Understanding for Planning a Rural Telehealth Initiative among the U.S. Department of Health and Human Services and U.S. Department of Agriculture and the Federal Communications Commission* (effective Aug. 31, 2020), https://www.hhs.gov/sites/default/files/rural-telehealth-mou-hhs-usda-fcc.pdf (*Rural Telehealth Initiative MOU*).

[253] *Id.* at 3.

[254] *Rural Health Care Support Mechanism*, WC Docket No. 02-60, Order, 35 FCC Rcd 11696 (WCB 2020).

[255] *See generally Digital Opportunity Data Collection Second Order and Third Further Notice*; *Digital Opportunity Data Collection Order and Second Further Notice*.

[256] *Digital Opportunity Data Collection Order and Second Further Notice*, 35 FCC Rcd at 7664-96, paras. 9-86.

[257] *Id.* at 7696-729, paras. 87-191.

[258] FCC, *Broadcast Incentive Auction and Post-Auction Transition*, https://www.fcc.gov/about-fcc/fcc-initiatives/incentive-auctions (last visited Oct. 27, 2020); Press Release, FCC, Post-Incentive Auction Transition

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of this valuable 600 MHz spectrum available for wireless mobile broadband.[259]

77. In May 2020, the Commission took further action to make low-band spectrum available for the development of critical wireless broadband technologies and services.[260] Specifically, the Commission realigned the 900 MHz band to make available six of the band's ten megahertz for the deployment of broadband services and technologies to meet the spectrum capacity demands of a wide range of industries, including utilities and railroads.[261]

78. The Commission also has pursued a comprehensive strategy to make available more mid-band spectrum, which is uniquely suited for 5G deployment because of its propagation characteristics.[262] The *2.5 GHz Report and Order*, for example, adopted rules to facilitate advanced wireless services, including 5G, in the 2.5 GHz band—the largest swath of contiguous spectrum in the country below 3 GHz.[263] The *2.5 GHz Report and Order* included a pre-auction priority window for Tribal Nations to apply to obtain unassigned spectrum on rural Tribal lands to address the needs of their communities.[264] The Wireless Telecommunications Bureau received over 400 applications through the Rural Tribal Priority Window, has already granted 154 of those applications, and accepted another 60 applications for filing.[265] The Commission plans to schedule an auction of the 2.5 GHz band in 2021.[266]

79. In addition, in August 2020, the Commission concluded its auction of Priority Access Licenses in the 3.5 GHz band.[267] This auction offered the greatest number of spectrum licenses ever made

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Successfully Meets 39-Month Deadline (July 13, 2020), https://docs.fcc.gov/public/attachments/DOC-365479A1.pdf (*Post-Incentive Auction Transition Press Release*).

[259] *Post-Incentive Auction Transition Press Release*.

[260] *Review of the Commission's Rules Governing the 896-901/935-940 MHz Band*, WT Docket No. 17-200, Report and Order, Order of Proposed Modification, and Orders, 35 FCC Rcd 5183 (May 14, 2020) (*900 MHz Report and Order*); Press Release, FCC, FCC Transforms 900 MHz Band to Enable Broadband Deployment by Utilities and Other Industries (May 13, 2020), https://docs.fcc.gov/public/attachments/DOC-364320A1.pdf.

[261] *900 MHz Report and Order*, 35 FCC Rcd at 5184, para. 1.

[262] *See, e.g.*, CTIA Comments at 32-33.

[263] *Transforming the 2.5 GHz Band*, Report and Order, WT Docket No. 18-120, 34 FCC Rcd 5446, 5447, para. 3 (2019) (*2.5 GHz Report and Order)*.

[264] *2.5 GHz Report and Order*, 34 FCC Rcd at 5463-69, paras. 47-65; *2.5 GHz Tribal Priority Window Public Notice*, 35 FCC Rcd at 308; *see also* FCC, *2.5 GHz Rural Tribal Window*, https://www.fcc.gov/25-ghz-rural-tribal-window (last visited Dec. 15, 2020). The Tribal priority window was extended until September 2, 2020 due to the COVID-19 pandemic. *Transforming the 2.5 GHz Band*, WT Docket No. 18-120, Memorandum Opinion and Order, 35 FCC Rcd 8112, 8113, para. 3 (WTB July 31, 2020).

[265] *Wireless Telecommunications Bureau Announces First Round of 2.5 GHz Rural Tribal Priority Window License Applications Accepted for Filing*, Public Notice, 35 FCC Rcd 10294 (WTB Sept. 15, 2020); Press Release, FCC, FCC Grants First Licenses in 2.5 GHz Rural Tribal Priority Window (Oct. 23, 2020), https://docs.fcc.gov/public/attachments/DOC-367726A1.pdf; *Wireless Telecommunications Bureau Announces Additional 2.5 GHz Rural Tribal Priority Window License Applications Accepted for Filing*, Public Notice, 35 FCC Rcd 12850 (WTB 2020).

[266] Press Release, FCC, FCC Announces Close of First-Ever Rural Tribal Priority Window for Spectrum (Sept. 3, 2020), https://docs.fcc.gov/public/attachments/DOC-366657A1.pdf.

[267] *Auction of Priority Access Licenses for the 3550-3650 MHz Band*; *Notice and Filing Requirements, Minimum Opening Bids, Upfront Payments, and Other Procedures for Auction 105*; *Bidding in Auction 105 Scheduled to Begin June 25, 2020*, AU Docket No. 19-244, Public Notice, 35 FCC Rcd 2140 (2020) (*3.5 GHz Procedures Public Notice*) (rescheduled from June 25, 2020 to July 23, 2020 due to the COVID-19 pandemic); *3.5 GHz Public Notice* at 1, para. 1.

available for bidding in a single auction.[268] Earlier in 2020, the Wireless Telecommunications Bureau and the Office of Engineering and Technology announced that they had certified Spectrum Access System Administrators to coordinate operations among different tiers of users in the 3.5 GHz band, which paved the way for full commercial operations in the band.[269] The auction's net proceeds exceeded $4.54 billion, with a total of 228 bidders winning 20,625 of 22,631, or more than 91%, of available licenses.[270]

80. In December 2019, the Commission released a Notice of Proposed Rulemaking regarding shared use in the 3.45-3.55 GHz band between federal operations and commercial wireless services.[271] In August 2020, the White House announced that, in collaboration with the Department of Defense, it would make available 100 megahertz of contiguous spectrum in the 3.45-3.55 GHz band for mobile wireless providers to build and operate 5G networks.[272] The Commission subsequently adopted the *3.45-3.55 GHz Order and Further Notice of Proposed Rulemaking* in October 2020 to take steps to bring this mid-band spectrum to market.[273] The Order eliminated the non-federal radiolocation service and non-federal amateur allocations in the 3.3-3.5 GHz band as a step toward future shared use between federal incumbents and commercial operators.[274] The Further Notice proposed to make 100 megahertz of spectrum in the 3.45-3.55 GHz band available for flexible use.[275]

81. In March 2020, the Commission adopted an order to make 280 megahertz of the 3.7-4.2 GHz band (C-band) available for next generation wireless services, to compensate incumbent operators for relocating out of that portion of the band, and to provide accelerated relocation payments to incumbent satellite operators that meet early clearance benchmarks for the band.[276] By repacking existing satellite operations into the upper 200 megahertz of the C-band, the Commission is making a significant amount of spectrum available for flexible terrestrial use throughout the contiguous United States in a manner that ensures the continuous and uninterrupted delivery of services currently offered in the band.[277] The Commission established competitive bidding procedures for the auction of this valuable mid-band spectrum, Auction 107, which will begin in December 2020.[278]

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[268] *3.5 GHz Procedures Public Notice*, 35 FCC Rcd at 2142, para. 1.

[269] Press Release, FCC, FCC Authorizes Full Commercial Deployment in 3.5 GHz Band, Advancing American 5G Leadership (Jan. 27, 2020), https://docs.fcc.gov/public/attachments/DOC-362108A1.pdf.

[270] *Auction of Priority Access Licenses in the 3550-3650 Mhz Band Closes*; *Winning Bidders Announced for Auction 105*, AU Docket No. 19-244, Public Notice, 35 FCC Rcd 9287 (OEA & WTB 2020), https://docs.fcc.gov/public/attachments/DA-20-1009A1.pdf; Press Release, FCC, FCC Announces Winning Bidders of 3.5 GHz Band Auction (Sept. 2, 2020), https://docs.fcc.gov/public/attachments/DOC-366624A1.pdf.

[271] *Facilitating Shared Use in the 3.45-3.55 GHz Band*, WT Docket No. 19-348, Notice of Proposed Rulemaking, 34 FCC Rcd 12662 (2019).

[272] Press Release, Exec. Off. of President, President Donald J. Trump Is Unleashing America's 5G Potential (Aug. 10, 2020), https://www.whitehouse.gov/briefings-statements/president-donald-j-trump-unleashing-americas-5g-potential; *see also* Press Release, FCC, Chairman Pai Statement on the Administration Announcement Freeing Up 3.45-3.55 GHz Band for 5G (Aug. 10, 2020), https://docs.fcc.gov/public/attachments/DOC-366068A1.pdf.

[273] *Facilitating Shared Use in the 3100-3500 MHz Band*, WT Docket No. 19-348, Report and Order and Further Notice of Proposed Rulemaking, 35 FCC Rcd 11078 (2020) (*3.45-3.55 GHz Order and FNPRM*).

[274] *Id.* at 11079, para. 4.

[275] *Id.* at 11091, para. 38.

[276] *Expanding Flexible Use of the 3.7 to 4.2 GHz Band*, GN Docket No. 18-122, Report and Order and Order of Proposed Modification, 35 FCC Rcd 2343, 2345, 2413, paras. 3-4, 168 (2020) (*3.7 GHz Report and Order*).

[277] *3.7 GHz Report and Order*, 35 FCC Rcd at 2345, para. 4.

[278] *Auction of Flexible-Use Service Licenses in the 3.7-3.98 GHz Band for Next-Generation Wireless Services*; *Notice and Filing Requirements, Minimum Opening Bids, Upfront Payments, and Other Procedures for Auction*

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82. The Commission has also pursued ways to promote innovative and efficient uses of spectrum. In October 2020, the Commission revised its rules to facilitate the development of new and innovative narrowband Internet of Things devices in TV white spaces and expand the ability of unlicensed white space devices to deliver wireless broadband services in rural areas and areas where fewer broadcast stations are on the air.[279]

83. The Commission also adopted new rules in April 2020 to allow unlicensed devices to operate in the 6 GHz band (5.925-7.125 GHz) without interfering with the operation of the licensed services that will continue to use this spectrum.[280] The Commission's actions made 1,200 megahertz of spectrum available for unlicensed operations, such as Wi-Fi. Under the *6 GHz Report and Order*, unlicensed devices operating at low power levels indoors would have access to the full 1,200 megahertz of spectrum.[281] In the 5.925-6.425 GHz and 6.525-6.875 GHz sub-bands, unlicensed access points are permitted to transmit both indoors and outdoors at standard power levels that are currently permitted in the 5 GHz band when operated under an automated frequency control (AFC) system.[282] The Commission sought comment on several additional issues in the *6 GHz FNPRM*, including permitting unlicensed devices to operate both indoors and outdoors across the entire 6 GHz band at very-low power levels and increasing the transmit power of indoor access points.[283] The new rules will facilitate deployment of Wi-Fi 6, the next generation of Wi-Fi that allows for speeds more than two-and-a-half times faster than the current standard while improving performance.

84. Similarly, in December 2019, the Commission adopted a Notice of Proposed Rulemaking that proposed rule changes to allow unlicensed and innovative uses like next-generation Wi-Fi in the 5.850-5.925 GHz band.[284] The Commission allocated this 75 megahertz of spectrum for Dedicated Short-Range Communications over 20 years ago.[285] Since that time, however, the technology has not enjoyed widespread commercial adoption or deployment.[286] Meanwhile, demand for unlicensed services, such as W-Fi- has grown exponentially.[287] During the COVID-19 pandemic, the Commission granted requests for Special Temporary Authority to more than 100 Wireless Internet Service Providers for temporary access to the lower 45 megahertz of the 5.9 GHz band to expand and improve broadband service provided largely in rural and suburban communities.[288] On November 18, 2020, the Commission adopted the *5.9 GHz Order*, designating the lower 45 megahertz of the band for unlicensed use and the upper 30 megahertz of spectrum for Intelligent Transportation System services, and in particular Cellular Vehicle-

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107; *Bidding in Auction 107 Scheduled to Begin December 8, 2020*, AU Docket No. 20-25, Public Notice, 35 FCC Rcd 8404, 8406, paras. 1-2 (Aug. 7, 2020) (*C-Band Auction Public Notice*).

[279] *Unlicensed White Space Device Operations in the Television Bands*, ET Docket No. 20-36, Report and Order, 35 FCC Rcd 12603, 12604, para. 1 (2020).

[280] *Unlicensed Use of the 6 GHz Band; Expanding Flexible Use in Mid-Band Spectrum Between 3.7 and 24 GHz*, ET Docket No. 18-295, GN Docket No. 17-183, Report and Order and Further Notice of Proposed Rulemaking, 35 FCC Rcd 3852, 3853, para. 1 (2020) (*6 GHz Report and Order and FNPRM*).

[281] *Id.* at 3860, para. 18.

[282] *Id.* at 3860, paras. 17-18.

[283] *Id.* at 3938-45, paras. 231-55.

[284] *See generally Use of the 5.850-5.925 GHz Band*, ET Docket No. 19-138, Notice of Proposed Rulemaking, 34 FCC Rcd 12603 (2019).

[285] *Id.* at 12604, para. 3.

[286] *Id.* at 12604-05, para. 4.

[287] *Id.* at 12606, para. 6.

[288] *See* Press Release, FCC, 5.9 GHz Band Boosts Consumer Internet Access During COVID-19 Pandemic (May 4, 2020), https://docs.fcc.gov/public/attachments/DOC-364138A1.pdf.

to-Everything technology.[289] The Commission allowed for immediate indoor use of the lower 45 megahertz for unlicensed use while creating a regulatory process for outdoor operations contingent upon protection for federal incumbents and pending adoption of technical rules proposed in the *Further Notice*. When combined with existing Wi-Fi spectrum in the adjacent 5 GHz band, the Commission's action will allow for near-term deployment of a high-throughput, 160-megahertz channel that will enable gigabit connectivity for schools, hospitals, small businesses, and other consumers.

85. On March 5, 2020, the Commission concluded Auction 103, its auction of Upper 37 GHz, 39 GHz, and 47 GHz licenses.[290] Auction 103 offered licenses made available, in part, because existing 39 GHz band licensees committed to relinquishing their 39 GHz spectrum usage rights in exchange for incentive payments determined by bidding in the auction; the incentive payments reduced the amount of any winning bids for new licenses by the entity making the commitment (and the balance payable in cash through auction proceeds).[291] As a result of the auction, 28 bidders won a total of 14,142 licenses.[292] Auction 103 resulted in 3,400 megahertz of millimeter-wave spectrum being made available for flexible use services, including 5G—the largest amount of spectrum offered in an auction in U.S. history.[293]

86. Moreover, in June 2020 the Commission adopted a *Notice of Proposed Rulemaking and Order* proposing rules to allow for new uses of the 71-76 GHz, 81-86 GHz, 92-94 GHz, and 94.1-95 GHz bands (the 70/80/90 GHz bands).[294] The Commission sought comment on potential changes to its antenna standards in the 70 and 80 GHz bands and its current link registration rules for the 70/80/90 GHz bands that could allow for the provision of wireless backhaul for 5G.[295] The Commission also proposed to authorize point-to-point links to endpoints in motion in the 70GHz and 80 GHz bands to support the deployment of broadband services to aircraft and ships.[296]

87. With respect to satellite services, on April 23, 2020, the Commission comprehensively updated the Commission's rules regarding orbital debris mitigation.[297] The updated regulations were designed to ensure that the Commission's actions concerning radio communications, including licensing U.S. spacecraft and granting access to the U.S. market for non-U.S. spacecraft, mitigate the growth of orbital debris, while at the same time not creating undue regulatory obstacles to new satellite ventures.

88. On May 13, 2020, the Commission adopted rules expanding the scope of operations

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[289] *See* Press Release, FCC, FCC Modernizes 5.9 GHz Band for W-Fi and Auto Safety (Nov. 18, 2020), https://docs.fcc.gov/public/attachments/DOC-368228A1.pdf; *see also Use of the 5.850-5.925 GHz Band*, ET Docket No. 19-138, First Report and Order, Further Notice of Proposed Rulemaking, and Order of Proposed Modification, 35 FCC Rcd 13440 (2020).

[290] *Incentive Auction of Upper Microwave Flexible Use Service Licenses in the Upper 37 GHz, 39 GHz, and 47 GHz Bands for Next-Generation Wireless Services Closes*; *Winning Bidders Announced for Auction 103*, AU Docket No. 19-59, Public Notice, 35 FCC Rcd 2015 (2020).

[291] *Id.* at 2016-17, para. 5.

[292] *Id.* at 2015, para. 2.

[293] Press Release, FCC, FCC Concludes Largest Ever Spectrum Auction, Advancing American Leadership in 5G (Mar. 12, 2020), https://docs.fcc.gov/public/attachments/DOC-363000A1.pdf.

[294] *Modernizing and Expanding Access to the 70/80/90 GHz Bands, et al*., WT Docket No. 20-133 et al., Notice of Proposed Rulemaking and Order, 35 FCC Rcd 6039 (2020).

[295] *Id.* at 6045, para. 9.

[296] *Id.*

[297] *Mitigation of Orbital Debris in the New Space Age*, IB Docket No. 18-313, Report and Order and Further Notice of Proposed Rulemaking, 35 FCC Rcd 4156, 4157, para. 1 (2020) (*Orbital Debris Report and Order and FNPRM*).

available with Earth Stations in Motion (ESIMs).[298] The Commission extended licensing rules for ESIMs that operate with GSO FSS space stations to additional frequency bands available for blanket licensing of earth stations at fixed locations. The Commission also adopted rules enabling the licensing of ESIMs with NGSO FSS space stations based on the regulatory framework adopted for ESIM communications with GSO FSS networks.

89. On November 19, 2020, the Commission further streamlined its rules governing satellite services by more closely aligning the licensing processes for space stations and earth stations.[299] The Commission created an optional, unified license framework to authorize the blanket-licensed earth stations and space stations in a satellite system under a single license.[300] The Commission also harmonized the build-out requirements for earth stations and space stations and eliminated unnecessary reporting rules to reduce regulatory burdens and provide additional operational flexibility.[301]

D. Efforts To Ensure and Improve Connectivity During the COVID-19 Pandemic

90. *Keep Americans Connected Initiative.* The onset of COVID-19 has highlighted the need for residential broadband availability as individuals transition to telework, remote learning, telehealth, and other online options. The Commission has taken many actions to ensure that Americans remain connected throughout the pandemic, many of which are outlined in Chairman Pai's Keep Americans Connected Initiative.[302]

91. Chairman Pai announced the Keep Americans Connected Initiative on March 13, 2020.[303] To ensure that Americans did not lose their broadband or telephone connectivity as a result of the exceptional circumstances brought about by the pandemic, Chairman Pai specifically asked broadband and telephone service providers and trade associations to take the Keep Americans Connected Pledge.[304] More than 800 companies and associations signed the pledge, committing to: (1) not terminate service to any residential or small business customers because of their inability to pay their bills due to the disruptions caused by the coronavirus pandemic; (2) waive any late fees that any residential or small business customers incur because of their economic circumstances related to the coronavirus pandemic; and (3) open its Wi-Fi hotspots to any American who needs them.[305] Chairman Pai also urged companies with low-income broadband programs to expand and improve them, and those without them to adopt such programs. In addition, Chairman Pai called on broadband providers to relax their data usage limits in appropriate circumstances and take steps to promote remote learning and telehealth.[306]

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[298] *Amendment of Parts 2 and 25 of the Commission's Rules to Facilitate the Use of Earth Stations in Motion Communicating with Geostationary Orbit Space Stations in Frequency Bands Allocated to the Fixed Satellite Service*; *Facilitating the Communications of Earth Stations in Motion with Non-Geostationary Orbit Space Stations*, IB Docket Nos. 17-95 and 18-315, Second Report and Order, Report and Order, and Further Notice of Proposed Rulemaking, 35 FCC Rcd 5137, 5139, para. 5 (2020) (*ESIMs Report and Order and FNPRM*).

[299] *Further Streamlining Part 25 Rules Governing Satellite Services*, IB Docket No. 18-314, Report and Order, 35 FCC Rcd 13285 (2020).

[300] *Id.* at 15290-97, paras. 15-36.

[301] *Id.* at 15297-306, paras. 37-65.

[302] FCC, Keep Americans Connected, https://www.fcc.gov/keep-americans-connected (last visited Oct. 27, 2020) (Keep Americans Connected Website).

[303] Press Release, FCC, Chairman Pai Launches the Keep Americans Connected Pledge (Mar. 13, 2020), https://docs.fcc.gov/public/attachments/DOC-363033A1.pdf (*Keep Americans Connected Pledge Launch Announcement*).

[304] *Id.*

[305] *Id.*; *Keep Americans Connected Website* (last visited Oct. 27, 2020) (participant count).

[306] *Keep Americans Connected Pledge Launch Announcement* at 2.

92. This pledge, intended to provide Americans relief in the early days of the COVID-19 pandemic, expired on June 30, 2020, to allow companies, especially smaller communications companies, to continue to fund their operations.[307] In preparation for this expiration, Chairman Pai called on broadband and telecommunications service providers to take steps to help ensure that American consumers and small businesses remain connected after June 30, 2020, specifically urging companies to develop payment plans and deferred payment arrangements.[308]

93. To help wireless service providers meet increased consumer demand for broadband during the coronavirus pandemic, the Commission issued more than 200 grants of special temporary authority to use additional spectrum to wireless service providers.[309] Further, many providers have implemented policies that go beyond the Keep Americans Connected Pledge and address the challenges that Americans face during the COVID-19 pandemic.[310] In a few noteworthy cases, mobile wireless service providers have increased hotspot data allotments, added new low-cost plans, and provided free wireless data to students for educational purposes.[311]

94. Many fixed broadband service providers have created specific COVID-19 policies aimed at keeping consumers connected.[312] Comcast, for example, committed to not disconnect services to individuals, waived late fees, maintained free Wi-Fi hotspots, paused data caps, and offered two months free service for new customers in their internet essentials program.[313] AT&T removed data overage charges to home internet services, upgraded some 10 Mbps packages to 25 Mbps, and added households that participate in the National School Lunch Program and Head Start to the AT&T Access program.[314] Verizon announced it would waive activation fees for new lines and would forego data caps due to the pandemic, and launched a new internet package aimed specifically at lower-income consumers and

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[307] *See* Press Release, FCC, Chairman Pai Extends Keep Americans Connected Pledge Through End of June Due to Ongoing COVID-19 Pandemic (Apr. 30, 2020), https://docs.fcc.gov/public/attachments/DOC-364090A1.pdf; Press Release, FCC, FCC Chairman Pai Urges Congress to Help Consumers Stay Connected Following End of Keep Americans Connected Pledge on June 30 (June 19, 2020), https://docs.fcc.gov/public/attachments/DOC-365040A1.pdf (*June 19 Keep America Connected Press Release*).

[308] *June 19 Keep America Connected Press Release* at 1.

[309] *See*, *e.g.*, Application of Alyrica Networks, Inc., ULS File No. 0009032423 (granted Apr. 24, 2020); Application of Zirkel Wireless, LLC, ULS File No. 0009031132 (granted May 6, 2020); Application of WireFree Communications, Inc., ULS File No. 0009264146 (granted Nov. 4, 2020).

[310] FCC, *Companies Have Gone Above and Beyond the Call to Keep Americans Connected During Pandemic*, https://www.fcc.gov/companies-have-gone-above-and-beyond-call-keep-americans-connected-during-pandemic (last visited Oct. 27, 2020) (*FCC Carrier Response Website)*.

[311] *FCC Carrier Response Website.*

[312] Many of these firms have created COVID-19 policies aimed at improving their networks, helping first responders and communities, aiding educational needs, supporting employees, and helping their business clients. However, this paragraph only discusses the companies' efforts to help consumers of residential fixed services.

[313] Press Release, Comcast, *Comcast Extends Comprehensive COVID-19 Response Polices to June 30* (Apr. 27, 2020), https://corporate.comcast.com/press/releases/comcast-extends-comprehensive-covid-19-response-policies-to-june-30; *see also* Letter from Gregory Coutros, Associate Corporate Counsel, Regulatory Affairs, Hughes Network Systems, LLC, to Marlene H. Dortch, Secretary, FCC, WC Docket No. 20-269 at 2 (filed Nov. 3, 2020) (stating that "Hughes has supported students in Tatums, OK, a small rural town where previously only two homes had broadband internet access, by providing [satellite] broadband services through a community hub to ensure that students in the town would be able to continue their education remotely without disruptions during the pandemic").

[314] Press Release, AT&T, *COVID-19: Our Response*, (Aug. 26, 2020), https://about.att.com/pages/COVID-19.html#consumers.

offered two months free to Lifeline subscribers.[315] Frontier committed to providing service without data caps throughout the pandemic.[316] Charter offered free internet packages for students for up to 60 days.[317] CenturyLink committed to not charge late fees and not disconnect residential customers through June 30, 2020, removed data caps until August 1, 2020, and offered new payment plans for a subset of its customer base.[318] In addition, many other fixed broadband service providers have also taken measures to protect consumers during the pandemic.[319]

95. *COVID-19 Telehealth Program.* One of the most critical efforts of the Commission's pandemic response has been the COVID-19 Telehealth Program. The Commission established the COVID-19 Telehealth Program, pursuant to the Coronavirus Aid, Relief, and Economic Security (CARES) Act, which was signed into law on March 27, 2020.[320] Under this standalone initiative, the Commission provided $200 million "to support efforts of health care providers to address coronavirus by providing telecommunications services, information services, and devices necessary to enable the provision of telehealth services" during the pendency of the COVID-19 pandemic.[321]

96. On April 13, 2020, the Commission began accepting applications and made awards on a rolling basis until the $200 million of funding authorized by Congress was exhausted. On July 8, 2020, the Commission announced the final set of approved applications.[322] In all, the Commission approved 539 applications, including more than three thousand health care locations across 49 states plus the District of Columbia and Guam.[323] The applicants that were awarded funding are able to seek reimbursement from the Commission for eligible services and devices.

97. *Regulatory Flexibility for Competitive Eligible Telecommunications Carriers.* On March 31, 2020, the Wireline Competition Bureau waived geographic limitations on where certain carriers, known as competitive ETCs, can spend legacy high-cost universal service support.[324] Specifically, competitive ETCs, who mostly provide mobile wireless service, receive approximately $382 million each year in legacy but are required to spend that support only in specific geographic service areas.[325] The Order waived that strict geographic requirement to allow affiliated competitive ETCs to spend the universal service support in any affiliated ETC's designated service area in order to allow them to respond

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[315] Press Release, Verizon, *Covid Response Customers*, https://www.verizon.com/about/news/covid-response-customers (last visited Oct. 27, 2020).

[316] Press Release, Karen Quach, Frontier, *COVID-19: What Frontier Is Doing to Support Customers* (Apr. 28, 2020) https://go.frontier.com/media-center/official-covid-19-response.

[317] Press Release, Charter Communications, *COVID-19 Update: Charter Continues to Keep Customers Connected* (June 3, 2020), https://corporate.charter.com/newsroom/covid-19-update-charter-continues-to-keep-customers-connected.

[318] Press Release, CenturyLink, *COVID-19 Support*, https://news.centurylink.com/covid-19-faqs (last visited Oct. 27, 2020).

[319] *See*, *e.g.*, Letter from Jonathan Spalter, President and CEO, USTelecom – The Broadband Association to the Hon. Roger Wicker, et al., U.S. Senate (Mar. 13, 2020), https://www.ustelecom.org/wp-content/uploads/2020/03/USTelecom-COVID-19-Network-Letter-to-Congress.pdf.

[320] Pub. L. No 116-136, 134 Stat. 281.

[321] *Promoting Telehealth for Low-Income Consumers Order*, 35 FCC Rcd at 3366, para 2.

[322] Press Release, FCC, FCC Approves Final Set of COVID-19 Telehealth Program Applications (July 8, 2020), https://docs.fcc.gov/public/attachments/DOC-365417A1.pdf.

[323] Press Release, FCC, Final List of COVID-19 Telehealth Program Awardees, https://www.fcc.gov/sites/default/files/covid-19-telehealth-program-recipients.pdf.

[324] *Connect America Fund*, WC Docket No. 10-90, Order, 35 FCC Rcd 2964.

[325] *Id.* at para. 2.

to the pandemic by spending funds where they are needed most to ensure that Americans using these networks can stay connected.[326]

98. *Regulatory Flexibility for Rural Health Care and E-Rate Programs*. Further, the Commission has acted during the COVID-19 pandemic to provide increased regulatory flexibility in the Commission's Rural Health Care and E-Rate Programs. In an effort to help ensure that healthcare providers have the resources they need to promote telehealth solutions, the Commission adopted an Order on March 13, 2020, to fully fund all eligible Rural Health Care Program services for Funding Year 2019 with an additional $42.19 million in funding.[327] On March 18, 2020 the Wireline Competition Bureau waived the gift rules for both the Rural Health Care and E-Rate Programs, which allowed service providers to offer, and Rural Health Care and E-Rate Program participants to solicit and accept, improved broadband connections or equipment for telehealth or remote learning during the COVID-19 pandemic.[328] The Bureau extended this waiver twice, to now run through June 30, 2021.[329] On March 26, 2020, the Bureau provided additional relief to Rural Health Care Program participants by (1) extending the RHC Program application filing window until June 30, 2020; (2) easing competitive bidding requirements for health care providers with expiring evergreen contracts; and (3) providing an extension of procedural deadlines, such as the response time for USAC information requests, the service delivery deadline, the invoice filing deadline, and the deadline for appeals and requests for waiver.[330] On September 16, 2020, the Wireline Competition Bureau's Telecommunications Access Policy Division waived, under certain conditions, the Rural Health Care Program invoice filing deadline for recipients of funding year 2019 funding commitment letters, extending it to the later of March 15, 2021 or 180 days after the issuance of the funding commitment letter by USAC.[331] On October 19, 2020, to promote the continued widespread delivery of vital communications-based health care during the pandemic, the Wireline Competition Bureau waived the cap on upfront payments and multi-year commitments for FY 2020 to ensure that all RHC Program requests for support could be funded in full.[332]

99. On March 13, and April 1, 2020, the Wireline Competition Bureau issued various waivers and extensions of certain E-Rate program rules and deadlines, including an extension of the FCC Form 471 application filing deadline for funding year 2020, and extensions of other program deadlines such as the service implementation deadline for special construction and the deadline to submit appeals and waiver requests, respectively.[333] In addition, on March 23, 2020, the Bureau issued a reminder to

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[326] *Id.*

[327] *Rural Health Care Support Mechanism*, WC Docket No. 02-60, Order, 35 FCC Rcd 2659, 2659, para. 3, 2662-63, paras. 8-9 (2020). The Order permits USAC to carry forward additional unused funds from prior years to cover a funding gap between demand and available funding, and waives the cap on multi-year commitments and upfront payments that would have resulted in unnecessary reductions in support for rural health care providers and their patients. *Id.*

[328] *See Rural Health Care Universal Service Support Mechanism*; *Schools and Libraries Universal Service Support Mechanism*, WC Docket No. 02-60, CC Docket No. 02-6, Order, 35 FCC Rcd 2741 (WCB 2020).

[329] *See Rural Health Care Universal Service Support Mechanism*; *Schools and Libraries Universal Service Support Mechanism*, WC Docket No. 02-60, CC Docket No. 02-6, Order, DA 20-1479 (WCB Dec. 14, 2020); *Rural Health Care Universal Service Support Mechanism*; *Schools and Libraries Universal Service Support Mechanism*, WC Docket No. 02-60, CC Docket No. 02-6, Order, 35 FCC Rcd 9416 (WCB 2020).

[330] *See Rural Health Care Support Mechanism*, WC Docket No. 02-60, Order, 35 FCC Rcd 2922, 2922, para. 1 (WCB 2020).

[331] *Rural Health Care Support Mechanism*, WC Docket No. 02-60, Order, 35 FCC Rcd 10356 (WCB/TAPD 2020).

[332] *Rural Health Care Support Mechanism*, WC Docket No. 02-60, Order, 35 FCC Rcd 11696 (WCB 2020).

[333] *Wireline Competition Bureau Directs USAC to Extend E-Rate Application Filing Window for Funding Year 2020 Due to Potential Coronavirus Disruptions*, CC Docket No. 02-6, Public Notice, 35 FCC Rcd 2089 (2020)

(continued….)

schools and libraries that are closed as a result of the pandemic that they may allow the general public to use their E-Rate-supported Wi-Fi networks while on the school's campus or the library's property.[334] And on September 16, 2020, the Bureau announced the opening of a second funding year 2020 FCC Form 471 application filing window to allow schools to request additional E-Rate funding to address increased on-campus bandwidth needs resulting from the pandemic.[335]

100. *Regulatory Flexibility for Lifeline Program*. Beginning on March 17, 2020, the Wireline Competition Bureau temporarily waived the Lifeline program's annual recertification and reverification requirements to protect Lifeline program participants potentially affected by the COVID-19 pandemic.[336] In addition, on March 30, 2020, the Bureau also waived the non-usage rules and general de-enrollment rules to prevent Lifeline subscribers from being involuntary de-enrolled during the pandemic[337] and, on April 29, 2020, eased documentation requirements for subscribers demonstrating eligibility based on income to facilitate the application process for individuals who lost their employment during the pandemic.[338] Finally, on June 1, 2020, the Bureau streamlined the enrollment process for subscribers residing on rural Tribal lands by enabling carriers to begin providing service to those subscribers prior to the submission of all required documentation.[339] In August 2020, these waivers were initially extended through November 30, 2020[340] and, in November 2020, they were subsequently extended through February 28, 2021.[341]

101. On November 16, 2020, the Bureau also waived the program rules updating the minimum service standard for mobile broadband, resulting in a standard of 4.5 GB/month for the next year.[342] Without this waiver, the standard would have increased to 11.75 GB/month on December 1, 2020.[343] The Bureau found that preventing an almost fourfold increase in the standard while allowing a moderate increase appropriately balances the program's goals of accessibility and affordability, particularly given consumers' increased reliance on broadband during the COVID-19 pandemic.[344]

102. In addition to these waivers, since the beginning of the pandemic the Commission has partnered with the Department of Health and Human Services (including the Administration for Children and Families, the Administration for Community Living, the Agency for Healthcare Research and Quality, the Health Resources and Services Administration, the Indian Health Service, the Office of the

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(extending the deadline from March 25, 2020 to April 29, 2020); *Schools and Libraries Universal Service Support Mechanism*, CC Docket No. 02-6, Order, 35 FCC Rcd 2978 (WCB 2020).

[334] *Wireline Competition Bureau Confirms that Community Use of E-Rate-Supported Wi-Fi Networks Is Permitted During School and Library Closures Due to COVID-19 Pandemic*, WC Docket Nos. 02-6, 13-184, Public Notice, 35 FCC Rcd 2879 (WCB 2020).

[335] *Schools and Libraries Universal Service Support Mechanism*, CC Docket No. 02-6, Order, 35 FCC Rcd 10347 (WCB 2020). The window opened on September 21, 2020 and closed on October 16, 2020. *See* USAC, *FY2020 Second Application Filing Window Opens September 21, 2020*, https://apps.usac.org/sl/tools/news-briefs/preview.aspx?id=972.

[336] *Lifeline and Link Up Reform and Modernization*, Order, 35 FCC Rcd 2729 (WCB 2020).

[337] *Lifeline and Link Up Reform and Modernization*, Order, 35 FCC Rcd 2950 (WCB 2020).

[338] *Lifeline and Link Up Reform and Modernization*, Order, 35 FCC Rcd 4482 (WCB 2020).

[339] *Lifeline and Link Up Reform and Modernization*, Order, 35 FCC Rcd 5510 (WCB 2020).

[340] *Lifeline and Link Up Reform and Modernization*, Order, 35 FCC Rcd 8791 (WCB 2020).

[341] *Lifeline and Link Up Reform and Modernization*, Order, 35 FCC Rcd 12954 (WCB 2020).

[342] *Lifeline and Link Up Reform and Modernization*, Order, 35 FCC Rcd 12958 (WCB 2020).

[343] *Id.* at 12960, para. 7.

[344] *Id.* at paras. 2, 12.

Assistant Secretary for Planning and Evaluation, and the Substance Abuse and Mental Health Services Administration), the Department of Veterans Affairs (including the Veterans Health Administration's Homeless Programs Office and Office of Connected Care), the Department of Housing and Urban Development (including the Office of Field Policy and Management, the Office of Housing, and the Office of Public and Indian Housing), the Department of Agriculture, the Bureau of Indian Affairs, the Social Security Administration, the Federal Emergency Management Agency, the National Telecommunications and Information Administration, the National Institute for Children's Health Quality, and the National Association of Regulatory Utility Commissioners to promote Lifeline awareness during the pandemic to ensure that consumers who are newly eligible for the program have the information and resources they need to apply.

VI. SECTION 706 FINDING

103. In light of the compelling evidence before us, we conclude, as the Commission has before, that advanced telecommunications capability is being deployed to all Americans in a reasonable and timely fashion. The available data clearly demonstrate significant progress in the deployment of "advanced telecommunications capability" for calendar year 2019. For example, the number of Americans without access to fixed terrestrial broadband deployment decreased by more than 20% in 2019, with decreases in urban, rural, and Tribal areas.[345] More Americans—more than 97%—have access to mobile 4G LTE with median speeds of 10/3 Mbps, up from less than 94% in 2018.[346] Indeed, there were larger deployment increases for both fixed and mobile services, both separately and when combined.[347] We also are encouraged by the year-over-year increases in fixed terrestrial services at every speed examined in this Report—10/1 Mbps mobile broadband, and 25/3 Mbps, 50/5 Mbps, 100/10 Mbps, and 250/25 Mbps fixed broadband.[348] And 5G mobile service continues to be rolled out at a breakneck pace by multiple providers.[349]

104. Commenters also applaud Commission policies and efforts to date that promote broadband investment and expansion[350] and expect that positive trends in deployment will continue.[351] As

[345] *See supra* Fig. 1.

[346] *See supra* Fig. 2b.

[347] *See supra* Figs. 1, 2b, 3a, 3b.

[348] *See supra* Fig. 4.

[349] *See, e.g.*, CTIA Comments at 9 ("As of July 8, 2020, there were 6,087 cities with commercially available 5G deployments in the U.S."); Press Release, T-Mobile, T-Mobile Launches World's First Nationwide Standalone 5G Network (Aug. 4, 2020), https://www.t-mobile.com/news/network/standalone-5g-launch (announcing an expansion of the company's 5G footprint to nearly 2,000 additional cities and towns, and bringing 5G deeper into buildings); Bernie Arnason, *Verizon Expands 4G LTE Fixed Wireless Targeting Rural Markets with 25 Mbps Service*, Telecompetitor (Oct. 1, 2020) https://www.telecompetitor.com/verizon-expands-4g-lte-fixed-wireless-targeting-rural-markets-with-25-mbps-service (reporting that Verizon has expanded its 4G LTE fixed wireless service availability to 189 markets across 48 states, targeting more rural areas).

[350] *See, e.g.*, ADTRAN Comments at 13 (touting Commission efforts to date, "including removing disincentives to invest in new or enhanced broadband deployment, eliminating regulatory roadblocks and providing subsidies for broadband deployment in areas where market incentives are insufficient"); INCOMPAS Comments at 13 (The Commission "is taking a reasoned and thoughtful approach to eliminating barriers to the deployment of the next generation of communications networks."); ACA Connects Comments at 6; CTIA Comments at 34.

[351] *See, e.g.*, Free State Foundation Comments at 3-4, 9 ("The pace of fiber deployment continues to accelerate, and . . . current wireline broadband facilities will remain competitive going forward. . . . We fully expect additional forthcoming data will show deployment progress exceeding that which has been made in prior years. . . . The pro-deployment trend that began in 2017 is likely to continue . . . ."). We disagree with Free Press's assertion that the progress made in broadband deployment is not attributable, at least in large part, to the Commission's policymaking efforts. Free Press Comments at 15-48. As an initial matter, Free Press completely ignores the Commission's universal service and spectrum access policies, which have without question produced positive results in spurring

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in recent years, we note that some of the Commission's actions of late, undertaken to speed broadband deployment, likely are not yet fully reflected by the data used in our analysis here, as those data only provide the extent of U.S. broadband deployment through December 2019.

105. The Commission's efforts to respond to the COVID-19 epidemic have also ensured continuity of service to support broadband access for telework, telehealth, and remote learning, all of which have become especially important during the pandemic.[352] A number of commenters also explain that the pandemic has highlighted the importance of bridging the digital divide in order to ensure that no American is left unable to function in a society that is moving increasingly online, and that all Americans are able to benefit from the many digital resources available today.[353]

106. We disagree with commenters that contend that the section 706 requirements have not been met.[354] As the Commission has previously stated, the statute requires that we determine whether advanced telecommunications capability "*is being deployed* to all Americans"—not whether it has already been deployed to all Americans—and reading section 706(b) to require universal availability as a prerequisite for a positive finding would disregard the statute's "reasonable and timely" language.[355] With respect to those that contend that the inaccuracies in our current data necessarily render any findings

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additional deployment. Indeed, the record firmly establishes the success of these programs. *See, e.g.*, CTIA Comments at 31, 32-33; USTelecom Comments at 16, WISPA Comments at 12-13. Further, several commenters point to direct causal linkage between the Commission's actions and broadband deployment. For example, INCOMPAS notes that the Commission's "adoption of a one-touch make-ready policy that allows fiber providers to attach their fiber to utility poles in a more efficient manner . . . enables more fiber to be deployed." INCOMPAS Comments at 12; see also USTelecom Comments at 16 (applauding Commission leadership for making access to broadband possible for millions of Americans, and predicting that completion of Phase I of the Rural Digital Opportunity Fund auction will improve this trend even more). INCOMPAS also points out that the Commission's efforts to establish shot clocks and fee guidelines for state and local governments have accelerated 5G deployment. INCOMPAS Comments at 12-13. ACA Connects states that the Commission's removal of "regulatory barriers to deployment to accelerate investment . . . ha[s] unleashed investment and led to more robust deployment." ACA Connects Comments at 6; *see also* CTIA Comments at 34 ("The Commission's efforts to reduce barriers to wireless infrastructure deployment have had measurable results . . . ."). ADTRAN argues that the Commission's efforts "providing subsidies for broadband deployment in areas where market incentives are insufficient" have "foster[ed] the deployment of broadband." ADTRAN Comments at 13. These comments show that the Commission's policies have proven successful at increasing broadband deployment.

[352] *See, e.g.*, NTCA Comments at 4; Common Cause et al. Comments at 32; ADTRAN Comments at 8.

[353] *See, e.g.*, NCTA Comments at 4 ("As the Commission has explained, a positive finding under Section 706 should not be considered a suggestion that its work with respect to the availability of broadband to all Americans is complete. That is particularly true this year as the COVID crisis has exposed the serious consequences for consumers that do not have access to broadband and the urgent need to rectify that situation as quickly as possible."); Benton Institute et al. Comments at 7 (emphasizing the need "to bridge the gaps between those who have access and those who do not, as the pandemic underscores how essential internet access is for survival and recovery"); Common Cause et al. Comments at 32 ("[M]illions of Americans still do not have access to either minimum broadband speeds or reliable service, which has become particularly detrimental over the last several months as work, school, and healthcare have migrated online.").

[354] *See, e.g.*, Benton Institute et al. Comments at 2; Broadband Connects America Comments at 6; Free Press Comments at 8; Benton Institute Reply at 3; CWA Reply at 2-3; Open Technology Institute & Access Now Reply at 2-3.

[355] *See 2020 Report*, 35 FCC Rcd at 9032-34, para. 93; *2019 Report*, 34 FCC Rcd at 3859-60, para. 8, 3898-99, para. 78; *see also* CTIA Comments at 5 ("Were it Congress's intent to seek Commission input on whether deployment to all Americans *has been achieved*, Congress easily could have done so by directing the Commission to report on whether telecommunications capability '*has* been deployed' in a reasonable and timely fashion—and Congress did not do so."); USTelecom Reply at 2 ("[A]n approach that evaluates progress toward full deployment is appropriate and most consistent with the statute.").

we might reach here inherently inaccurate or problematic,[356] the FCC Form 477 data remains the best available data and provides a consistent means to measure progress. Despite any shortcomings in Form 477 data, the rapid pace of deployment and expansion of services to new areas is undeniable. At the same time, we continue to recognize the problems with the FCC Form 477 data, and notes that the efforts to improve our data collection are already underway.[357] In the interim, however, we are still obligated to conduct our annual section 706 inquiry.[358]

107. We are confident that the Commission's policymaking efforts over the last few years have placed the Commission on the proper course and are encouraging strong progress in deploying advanced telecommunications capability to more and more Americans.[359] The progress demonstrated by the deployment data is consistent with the evidence in the record showing continuing network investment in 2019.[360] Further, longer-term measurements show substantial progress. Since the end of 2016, the number of Americans lacking access to 25/3 Mbps service has decreased by more than 44%, and the urban–rural divide has decreased by over 46%.[361] And, over the same period, the number of Americans lacking access to mobile broadband with a median speed of 10/3 Mbps was reduced by nearly 80%.[362] Thus, we find that the data we do have is sufficiently indicative of progress in deployment to give us reasonable confidence that advanced telecommunications capability is being deployed in a reasonable and timely manner. These circumstances warrant a positive finding.

108. We remain cognizant that our work to close the digital divide is not complete. We recognize that the 2019 data show that nearly 14.5 million people, still lack access to fixed terrestrial

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[356] *See, e.g.*, Benton Institute et al. Comments at 2-3; Open Technology Institute & Access Now Comments at 21-23; Carroll County Broadband Reply at 5-6.

[357] 2020 Report, 35 FCC Rcd at 8997-98, paras. 24-25; 2019 Report, 34 FCC Rcd at 3868, para. 24; Digital Opportunity Data Collection Second Report and Order and Third Further Notice.

[358] *See, e.g.*, *2020 Report*, 35 FCC Rcd at 8997-98, paras. 24-25; *2019 Report*, 34 FCC Rcd at 3868-69, paras. 24-26; *see also* ADTRAN Comments at 9-10 ("[T]he fact that more accurate and more granular data will be available for future Section 706 inquiries is no reason to decline to use the best available information that the Commission has presently. Notwithstanding the potential for [FCC] Form 477 to overstate broadband deployment, it remains the most comprehensive data available."); Free State Foundation Comments at 13 (stating that criticism of the accuracy of the FCC Form 477 data does "not change the fact that the Commission has a statutory duty to prepare its report. The Commission should carry out that duty using the best data at its disposal, while at the same time, continuing to press Congress to provide the funding needed for the agency to undertake new broadband mapping work"); USTelecom Comments at 14 ("While some, including USTelecom, have criticized the FCC Form 477 data for overstating deployment, . . . the degree of overstatement is proportionately inconsequential to the broader conclusions and trends . . . .").

[359] ADTRAN Comments at 10 ("[G]iven the consistency with prior years' Section 706 analyses based on the [FCC] Form 477 data, use in this year's assessment should continue to provide an accurate measure of trends, even if data for specific census blocks may be overstated."); USTelecom Comments at 14 ("USTelecom agrees with the Commission that using Form 477 deployment data for fixed technologies is currently the most reliable and comprehensive dataset with which to assess availability of fixed services. . . . [T]he shortcomings of Form 477 data are absent in smaller, more densely populated geographic areas where multiple providers are offering broadband service using a variety of technologies. . . . At the same time, USTelecom applauds the Commission for acknowledging the weak points in this data and striving for improvement.").

[360] *See, e.g.*, CTIA Comments at 6-12; Free State Foundation Comments at 1-3, 5-8; NCTA Comments at 3-4; USTelecom Comments at 5-7 (all listing recent industry investments and expansion efforts). Moreover, there is no documented evidence in the record suggesting that the progress in deployment shown in the data is a function of data deficiencies.

[361] *See supra* Fig. 1.

[362] *See supra* Fig. 2b.

advanced telecommunications capability.[363] While deployment is improving in all geographic areas, we recognize that there is still significant work to do to encourage deployment to rural areas, where more than 17% of Americans lack access, and Tribal lands, where nearly 21% of Americans lack access.[364] We agree with ADTRAN that "making an affirmative finding that advanced telecommunications capabilities deployment is occurring on a reasonable and timely basis does not mean the Commission can then 'pat itself on the back' and declare the job done."[365] And we agree with Free State Foundation that, notwithstanding our positive finding here, we should continue to remove barriers to deployment.[366] Therefore, the further deployment of advanced telecommunications capability to close the digital divide will remain a top priority of the Commission as we continue our efforts to deliver the benefits of broadband to all Americans.

VII. ORDERING CLAUSE

109. Accordingly, IT IS ORDERED that, pursuant to section 706 of the Telecommunications Act of 1996, as amended, 47 U.S.C. § 1302, this Report IS ADOPTED.

FEDERAL COMMUNICATIONS COMMISSION

Marlene H. Dortch
Secretary

[363] *See supra* Fig. 1.

[364] *See id*.

[365] ADTRAN Comments at 9.

[366] Free State Foundation Comments at 5.

APPENDIX A

Deployment (Millions) of Fixed Terrestrial 25/3 Mbps; Mobile 4G LTE with a Minimum Advertised Speed of 5/1 Mbps; and Mobile 4G LTE with a Median Speed of 10/3 Mbps by State, District of Columbia and U.S. Territory (December 31, 2019)[1]

	Pop. Evaluated	Fixed 25/3 Mbps		Mobile 4G LTE 5/1 Mbps		Pop. Evaluated	Mobile 4G LTE 10/3 Mbps	
		Pop.	% of Pop.	Pop.	% of Pop.		Pop.	% of Pop.
United States	331.777	317.257	95.6%	331.333	99.9%	319.341	310.923	97.4%
Rural Areas	65.323	54.062	82.8%	64.952	99.4%	58.572	53.156	90.8%
Urban Areas	266.455	263.195	98.8%	266.381	100.0%	260.768	257.767	98.8%
Alabama	4.902	4.294	87.6%	4.900	100.0%	4.725	4.626	97.9%
Rural Areas	2.025	1.479	73.0%	2.023	99.9%	1.864	1.782	95.6%
Urban Areas	2.877	2.815	97.8%	2.877	100.0%	2.862	2.844	99.4%
Alaska	0.731	0.623	85.2%	0.666	91.0%	0.065	0.000	0.0%
Rural Areas	0.262	0.167	63.7%	0.204	78.0%	0.058	0.000	0.0%
Urban Areas	0.469	0.456	97.2%	0.461	98.3%	0.008	0.000	0.0%
American Samoa	0.048	0.048	100.0%	0.000	0.0%	*	*	*
Rural Areas	0.007	0.007	99.8%	0.000	0.0%	*	*	*
Urban Areas	0.041	0.041	100.0%	0.000	0.0%	*	*	*
Arizona	7.279	6.902	94.8%	7.254	99.7%	7.269	7.022	96.6%
Rural Areas	0.922	0.613	66.5%	0.898	97.3%	0.917	0.765	83.4%
Urban Areas	6.357	6.289	98.9%	6.357	100.0%	6.352	6.257	98.5%
Arkansas	3.018	2.444	81.0%	3.017	100.0%	2.729	2.582	94.6%
Rural Areas	1.343	0.850	63.3%	1.342	100.0%	1.123	1.015	90.4%
Urban Areas	1.675	1.595	95.2%	1.675	100.0%	1.606	1.568	97.6%
California	39.512	38.918	98.5%	39.487	99.9%	39.509	39.021	98.8%
Rural Areas	2.415	2.034	84.2%	2.392	99.0%	2.412	2.191	90.9%
Urban Areas	37.097	36.883	99.4%	37.095	100.0%	37.097	36.830	99.3%
Colorado	5.758	5.597	97.2%	5.752	99.9%	5.645	5.607	99.3%
Rural Areas	0.924	0.798	86.4%	0.917	99.3%	0.837	0.804	96.1%
Urban Areas	4.835	4.799	99.3%	4.835	100.0%	4.809	4.803	99.9%
Connecticut	3.565	3.538	99.2%	3.565	100.0%	3.565	3.565	100.0%
Rural Areas	0.433	0.430	99.3%	0.433	100.0%	0.433	0.433	100.0%
Urban Areas	3.132	3.108	99.2%	3.132	100.0%	3.132	3.132	100.0%
Delaware	0.974	0.952	97.8%	0.973	100.0%	0.974	0.973	100.0%

[1] * Insufficient Information.

	Pop. Evaluated	Fixed 25/3 Mbps		Mobile 4G LTE 5/1 Mbps		Pop. Evaluated	Mobile 4G LTE 10/3 Mbps	
		Pop.	% of Pop.	Pop.	% of Pop.		Pop.	% of Pop.
Rural Areas	0.176	0.169	96.0%	0.176	100.0%	0.176	0.176	100.0%
Urban Areas	0.798	0.784	98.2%	0.798	100.0%	0.798	0.798	100.0%
District of Columbia	0.706	0.691	98.0%	0.706	100.0%	0.706	0.706	100.0%
Urban Areas	0.706	0.691	98.0%	0.706	100.0%	0.706	0.706	100.0%
Florida	21.477	20.673	96.3%	21.469	100.0%	21.424	21.020	98.1%
Rural Areas	2.168	1.704	78.6%	2.167	99.9%	2.126	1.836	86.4%
Urban Areas	19.309	18.969	98.2%	19.302	100.0%	19.297	19.183	99.4%
Georgia	10.614	9.960	93.8%	10.613	100.0%	10.006	9.710	97.0%
Rural Areas	2.621	2.122	81.0%	2.620	100.0%	2.170	1.930	88.9%
Urban Areas	7.993	7.837	98.1%	7.993	100.0%	7.835	7.780	99.3%
Guam	0.168	0.113	67.0%	0.168	100.0%	*	*	*
Rural Areas	0.011	0.004	34.2%	0.011	99.8%	*	*	*
Urban Areas	0.157	0.109	69.4%	0.157	100.0%	*	*	*
Hawaii	1.416	1.386	97.9%	1.414	99.9%	1.416	1.414	99.9%
Rural Areas	0.134	0.113	84.7%	0.133	99.4%	0.133	0.133	99.4%
Urban Areas	1.282	1.273	99.3%	1.281	99.9%	1.282	1.281	99.9%
Idaho	1.787	1.704	95.3%	1.776	99.4%	1.672	1.557	93.1%
Rural Areas	0.568	0.491	86.5%	0.557	98.1%	0.482	0.418	86.8%
Urban Areas	1.219	1.212	99.4%	1.219	100.0%	1.191	1.139	95.6%
Illinois	12.672	12.413	98.0%	12.672	100.0%	12.379	12.327	99.6%
Rural Areas	1.466	1.291	88.0%	1.466	100.0%	1.248	1.209	96.8%
Urban Areas	11.206	11.122	99.3%	11.206	100.0%	11.131	11.118	99.9%
Indiana	6.732	6.471	96.1%	6.732	100.0%	6.576	6.442	98.0%
Rural Areas	1.860	1.626	87.4%	1.860	100.0%	1.743	1.635	93.8%
Urban Areas	4.872	4.844	99.4%	4.872	100.0%	4.833	4.808	99.5%
Iowa	3.155	3.028	96.0%	3.153	99.9%	2.542	2.332	91.7%
Rural Areas	1.146	1.044	91.2%	1.144	99.8%	0.695	0.616	88.8%
Urban Areas	2.009	1.983	98.7%	2.009	100.0%	1.848	1.716	92.8%
Kansas	2.913	2.788	95.7%	2.913	100.0%	2.521	2.429	96.4%
Rural Areas	0.755	0.659	87.3%	0.755	100.0%	0.474	0.426	89.9%
Urban Areas	2.158	2.129	98.7%	2.158	100.0%	2.047	2.003	97.9%
Kentucky	4.468	4.211	94.3%	4.441	99.4%	3.991	3.551	89.0%
Rural Areas	1.837	1.593	86.7%	1.811	98.6%	1.408	1.137	80.8%
Urban Areas	2.630	2.619	99.6%	2.630	100.0%	2.583	2.414	93.5%

	Pop. Evaluated	Fixed 25/3 Mbps		Mobile 4G LTE 5/1 Mbps		Pop. Evaluated	Mobile 4G LTE 10/3 Mbps	
		Pop.	% of Pop.	Pop.	% of Pop.		Pop.	% of Pop.
Louisiana	4.649	4.111	88.4%	4.649	100.0%	4.464	4.304	96.4%
Rural Areas	1.250	0.812	65.0%	1.250	100.0%	1.115	1.020	91.4%
Urban Areas	3.398	3.299	97.1%	3.398	100.0%	3.349	3.284	98.1%
Maine	1.344	1.298	96.5%	1.335	99.3%	1.344	1.319	98.1%
Rural Areas	0.835	0.791	94.7%	0.827	99.0%	0.835	0.810	97.0%
Urban Areas	0.509	0.507	99.6%	0.509	99.9%	0.509	0.509	99.9%
Maryland	6.046	5.894	97.5%	6.043	100.0%	6.046	6.024	99.6%
Rural Areas	0.814	0.763	93.8%	0.813	99.9%	0.814	0.799	98.2%
Urban Areas	5.232	5.130	98.1%	5.230	100.0%	5.232	5.225	99.9%
Massachusetts	6.892	6.752	98.0%	6.890	100.0%	6.892	6.890	100.0%
Rural Areas	0.554	0.517	93.3%	0.554	99.9%	0.554	0.554	99.9%
Urban Areas	6.338	6.235	98.4%	6.336	100.0%	6.338	6.336	100.0%
Michigan	9.986	9.565	95.8%	9.984	100.0%	9.944	9.378	94.3%
Rural Areas	2.568	2.217	86.3%	2.567	99.9%	2.535	2.110	83.2%
Urban Areas	7.418	7.349	99.1%	7.417	100.0%	7.409	7.268	98.1%
Minnesota	5.639	5.500	97.5%	5.638	100.0%	5.379	5.304	98.6%
Rural Areas	1.511	1.381	91.4%	1.509	99.9%	1.318	1.256	95.3%
Urban Areas	4.129	4.119	99.8%	4.129	100.0%	4.061	4.048	99.7%
Mississippi	2.975	2.388	80.3%	2.974	100.0%	2.636	2.075	78.7%
Rural Areas	1.513	0.958	63.4%	1.512	100.0%	1.237	0.823	66.6%
Urban Areas	1.462	1.429	97.8%	1.462	100.0%	1.399	1.252	89.5%
Missouri	6.136	5.714	93.1%	6.134	100.0%	5.756	5.430	94.3%
Rural Areas	1.844	1.456	79.0%	1.841	99.9%	1.539	1.321	85.9%
Urban Areas	4.292	4.258	99.2%	4.292	100.0%	4.217	4.109	97.4%
Montana	1.069	0.927	86.7%	1.058	99.0%	0.829	0.818	98.8%
Rural Areas	0.495	0.364	73.6%	0.484	97.9%	0.319	0.309	96.8%
Urban Areas	0.574	0.563	98.0%	0.574	100.0%	0.509	0.509	100.0%
N. Mariana Isl.	0.051	0.050	97.0%	0.051	99.2%	*	*	*
Rural Areas	0.006	0.005	88.5%	0.005	95.3%	*	*	*
Urban Areas	0.046	0.045	98.1%	0.046	99.7%	*	*	*
Nebraska	1.934	1.863	96.3%	1.934	100.0%	1.581	1.532	96.9%
Rural Areas	0.522	0.454	87.0%	0.522	100.0%	0.250	0.233	93.3%
Urban Areas	1.412	1.409	99.8%	1.412	100.0%	1.331	1.299	97.6%
Nevada	3.080	2.992	97.1%	3.075	99.9%	3.062	3.035	99.1%

	Pop. Evaluated	Fixed 25/3 Mbps		Mobile 4G LTE 5/1 Mbps		Pop. Evaluated	Mobile 4G LTE 10/3 Mbps	
		Pop.	% of Pop.	Pop.	% of Pop.		Pop.	% of Pop.
Rural Areas	0.225	0.149	66.1%	0.221	98.1%	0.214	0.196	91.7%
Urban Areas	2.855	2.843	99.6%	2.855	100.0%	2.848	2.838	99.7%
New Hampshire	1.360	1.316	96.8%	1.359	99.9%	1.360	1.359	99.9%
Rural Areas	0.542	0.509	94.0%	0.541	99.9%	0.542	0.541	99.9%
Urban Areas	0.818	0.807	98.6%	0.818	100.0%	0.818	0.818	100.0%
New Jersey	8.882	8.753	98.5%	8.881	100.0%	8.882	8.881	100.0%
Rural Areas	0.464	0.454	97.8%	0.464	100.0%	0.464	0.464	100.0%
Urban Areas	8.418	8.299	98.6%	8.417	100.0%	8.418	8.417	100.0%
New Mexico	2.096	1.826	87.1%	2.088	99.6%	2.079	1.589	76.4%
Rural Areas	0.509	0.295	58.0%	0.501	98.4%	0.492	0.289	58.7%
Urban Areas	1.587	1.531	96.5%	1.587	100.0%	1.587	1.301	82.0%
New York	19.454	19.204	98.7%	19.446	100.0%	19.449	19.362	99.5%
Rural Areas	2.345	2.212	94.3%	2.339	99.7%	2.341	2.282	97.5%
Urban Areas	17.108	16.992	99.3%	17.107	100.0%	17.108	17.079	99.8%
North Carolina	10.488	10.016	95.5%	10.477	99.9%	10.274	10.060	97.9%
Rural Areas	3.492	3.039	87.0%	3.481	99.7%	3.304	3.115	94.3%
Urban Areas	6.996	6.978	99.7%	6.995	100.0%	6.970	6.945	99.6%
North Dakota	0.762	0.738	96.8%	0.761	99.9%	0.541	0.540	99.9%
Rural Areas	0.345	0.325	94.2%	0.344	99.9%	0.167	0.167	99.7%
Urban Areas	0.417	0.413	99.0%	0.417	100.0%	0.373	0.373	100.0%
Ohio	11.689	11.361	97.2%	11.685	100.0%	11.632	11.587	99.6%
Rural Areas	2.590	2.291	88.4%	2.587	99.9%	2.543	2.502	98.4%
Urban Areas	9.099	9.070	99.7%	9.098	100.0%	9.089	9.085	100.0%
Oklahoma	3.954	3.473	87.8%	3.950	99.9%	3.771	3.571	94.7%
Rural Areas	1.361	0.977	71.8%	1.357	99.7%	1.215	1.076	88.5%
Urban Areas	2.594	2.497	96.3%	2.594	100.0%	2.556	2.495	97.6%
Oregon	4.218	4.002	94.9%	4.200	99.6%	4.192	4.095	97.7%
Rural Areas	0.872	0.693	79.5%	0.854	98.0%	0.848	0.787	92.8%
Urban Areas	3.346	3.309	98.9%	3.346	100.0%	3.344	3.308	98.9%
Pennsylvania	12.802	12.277	95.9%	12.798	100.0%	12.785	12.674	99.1%
Rural Areas	2.731	2.367	86.7%	2.727	99.8%	2.716	2.645	97.4%
Urban Areas	10.071	9.910	98.4%	10.071	100.0%	10.069	10.030	99.6%
Puerto Rico	3.194	3.191	99.9%	3.192	100.0%	*	*	*
Rural Areas	0.207	0.205	98.8%	0.207	99.7%	*	*	*

	Pop. Evaluated	Fixed 25/3 Mbps		Mobile 4G LTE 5/1 Mbps		Pop. Evaluated	Mobile 4G LTE 10/3 Mbps	
		Pop.	% of Pop.	Pop.	% of Pop.		Pop.	% of Pop.
Urban Areas	2.986	2.986	100.0%	2.985	100.0%	*	*	*
Rhode Island	1.059	1.044	98.6%	1.059	100.0%	1.059	1.059	100.0%
Rural Areas	0.098	0.096	97.6%	0.098	100.0%	0.098	0.098	100.0%
Urban Areas	0.961	0.948	98.7%	0.961	100.0%	0.961	0.961	100.0%
South Carolina	5.149	4.698	91.3%	5.148	100.0%	5.042	4.978	98.7%
Rural Areas	1.757	1.383	78.7%	1.757	100.0%	1.674	1.628	97.2%
Urban Areas	3.392	3.316	97.7%	3.392	100.0%	3.368	3.351	99.5%
South Dakota	0.885	0.840	95.0%	0.884	99.9%	0.592	0.591	99.9%
Rural Areas	0.399	0.356	89.3%	0.398	99.8%	0.173	0.172	99.6%
Urban Areas	0.485	0.484	99.7%	0.485	100.0%	0.419	0.419	100.0%
Tennessee	6.829	6.396	93.7%	6.816	99.8%	6.453	6.361	98.6%
Rural Areas	2.316	1.945	84.0%	2.303	99.5%	1.988	1.904	95.8%
Urban Areas	4.513	4.451	98.6%	4.513	100.0%	4.465	4.457	99.8%
Texas	28.977	27.747	95.8%	28.974	100.0%	28.493	27.400	96.2%
Rural Areas	4.923	4.132	83.9%	4.920	99.9%	4.621	4.170	90.2%
Urban Areas	24.054	23.615	98.2%	24.054	100.0%	23.872	23.231	97.3%
U.S. Virgin Isl.	0.106	0.106	100.0%	0.104	98.1%	*	*	*
Rural Areas	0.007	0.007	100.0%	0.006	93.5%	*	*	*
Urban Areas	0.100	0.100	100.0%	0.098	98.3%	*	*	*
Utah	3.206	3.068	95.7%	3.201	99.9%	3.180	3.176	99.9%
Rural Areas	0.427	0.308	72.3%	0.422	99.0%	0.414	0.410	99.0%
Urban Areas	2.779	2.759	99.3%	2.779	100.0%	2.766	2.766	100.0%
Vermont	0.624	0.581	93.1%	0.624	99.9%	0.584	0.583	99.9%
Rural Areas	0.384	0.344	89.6%	0.384	99.9%	0.348	0.348	99.9%
Urban Areas	0.240	0.237	98.8%	0.240	100.0%	0.236	0.236	100.0%
Virginia	8.541	8.043	94.2%	8.524	99.8%	8.150	7.758	95.2%
Rural Areas	2.109	1.733	82.2%	2.092	99.2%	1.868	1.535	82.1%
Urban Areas	6.432	6.310	98.1%	6.431	100.0%	6.281	6.223	99.1%
Washington	7.614	7.331	96.3%	7.595	99.7%	7.597	7.453	98.1%
Rural Areas	1.338	1.119	83.6%	1.320	98.6%	1.323	1.219	92.2%
Urban Areas	6.276	6.212	99.0%	6.275	100.0%	6.274	6.234	99.4%
West Virginia	1.792	1.473	82.2%	1.731	96.6%	1.473	1.343	91.2%
Rural Areas	0.914	0.651	71.3%	0.853	93.3%	0.659	0.540	82.0%
Urban Areas	0.879	0.822	93.5%	0.878	100.0%	0.814	0.802	98.5%

	Pop. Evaluated	Fixed 25/3 Mbps		Mobile 4G LTE 5/1 Mbps		Pop. Evaluated	Mobile 4G LTE 10/3 Mbps	
		Pop.	% of Pop.	Pop.	% of Pop.		Pop.	% of Pop.
Wisconsin	5.822	5.428	93.2%	5.821	100.0%	5.606	5.107	91.1%
Rural Areas	1.763	1.378	78.2%	1.761	99.9%	1.578	1.203	76.2%
Urban Areas	4.060	4.050	99.8%	4.060	100.0%	4.029	3.905	96.9%
Wyoming	0.579	0.537	92.7%	0.576	99.6%	0.498	0.400	80.4%
Rural Areas	0.221	0.179	81.0%	0.219	98.9%	0.166	0.125	75.5%
Urban Areas	0.358	0.358	100.0%	0.358	100.0%	0.332	0.275	82.8%

APPENDIX B

Deployment (Millions) of Fixed Terrestrial 25/3 Mbps and Mobile 4G LTE with a Minimum Advertised Speed of 5/1 Mbps; and Fixed Terrestrial 25/3 Mbps and Mobile 4G LTE with a Median Speed of 10/3 Mbps by State, District of Columbia and U.S. Territory (December 31, 2019)[2]

	Pop. Evaluated	Fixed 25/3 Mbps and Mobile 4G LTE 5/1 Mbps		Pop. Evaluated	Fixed 25/3 Mbps and Mobile 4G LTE 10/3 Mbps	
		Pop.	% of Pop.		Pop.	% of Pop.
United States	331.777	317.035	95.6%	319.341	300.156	94.0%
Rural Areas	65.323	53.906	82.5%	58.572	45.346	77.4%
Urban Areas	266.455	263.129	98.8%	260.768	254.810	97.7%
Alabama	4.902	4.293	87.6%	4.725	4.161	88.0%
Rural Areas	2.025	1.478	73.0%	1.864	1.371	73.6%
Urban Areas	2.877	2.815	97.8%	2.862	2.790	97.5%
Alaska	0.731	0.620	84.7%	0.065	0.000	0.0%
Rural Areas	0.262	0.164	62.5%	0.058	0.000	0.0%
Urban Areas	0.469	0.456	97.2%	0.008	0.000	0.0%
American Samoa	0.048	0.000	0.0%	*	*	*
Rural Areas	0.007	0.000	0.0%	*	*	*
Urban Areas	0.041	0.000	0.0%	*	*	*
Arizona	7.279	6.900	94.8%	7.269	6.775	93.2%
Rural Areas	0.922	0.610	66.2%	0.917	0.563	61.4%
Urban Areas	6.357	6.289	98.9%	6.352	6.212	97.8%
Arkansas	3.018	2.444	81.0%	2.729	2.209	80.9%
Rural Areas	1.343	0.850	63.3%	1.123	0.699	62.3%
Urban Areas	1.675	1.595	95.2%	1.606	1.510	94.0%
California	39.512	38.907	98.5%	39.509	38.475	97.4%
Rural Areas	2.415	2.026	83.9%	2.412	1.856	77.0%
Urban Areas	37.097	36.881	99.4%	37.097	36.619	98.7%
Colorado	5.758	5.594	97.1%	5.645	5.474	97.0%
Rural Areas	0.924	0.795	86.1%	0.837	0.705	84.2%
Urban Areas	4.835	4.799	99.3%	4.809	4.770	99.2%
Connecticut	3.565	3.538	99.2%	3.565	3.538	99.2%

[2] * Insufficient Information.

	Pop. Evaluated	Fixed 25/3 Mbps and Mobile 4G LTE 5/1 Mbps		Pop. Evaluated	Fixed 25/3 Mbps and Mobile 4G LTE 10/3 Mbps	
		Pop.	% of Pop.		Pop.	% of Pop.
Rural Areas	0.433	0.430	99.3%	0.433	0.430	99.3%
Urban Areas	3.132	3.108	99.2%	3.132	3.108	99.2%
Delaware	0.974	0.952	97.8%	0.974	0.952	97.8%
Rural Areas	0.176	0.169	96.0%	0.176	0.169	96.0%
Urban Areas	0.798	0.783	98.2%	0.798	0.783	98.2%
District of Columbia	0.706	0.691	98.0%	0.706	0.691	98.0%
Urban Areas	0.706	0.691	98.0%	0.706	0.691	98.0%
Florida	21.477	20.665	96.2%	21.424	20.379	95.1%
Rural Areas	2.168	1.704	78.6%	2.126	1.515	71.3%
Urban Areas	19.309	18.962	98.2%	19.297	18.864	97.8%
Georgia	10.614	9.959	93.8%	10.006	9.301	93.0%
Rural Areas	2.621	2.122	81.0%	2.170	1.657	76.3%
Urban Areas	7.993	7.837	98.1%	7.835	7.645	97.6%
Guam	0.168	0.113	67.0%	*	*	*
Rural Areas	0.011	0.004	34.2%	*	*	*
Urban Areas	0.157	0.109	69.4%	*	*	*
Hawaii	1.416	1.384	97.8%	1.416	1.384	97.8%
Rural Areas	0.134	0.113	84.5%	0.133	0.113	84.5%
Urban Areas	1.282	1.272	99.2%	1.282	1.272	99.2%
Idaho	1.787	1.700	95.1%	1.672	1.515	90.6%
Rural Areas	0.568	0.488	85.9%	0.482	0.381	79.0%
Urban Areas	1.219	1.212	99.4%	1.191	1.134	95.2%
Illinois	12.672	12.413	98.0%	12.379	12.124	97.9%
Rural Areas	1.466	1.290	88.0%	1.248	1.087	87.1%
Urban Areas	11.206	11.122	99.3%	11.131	11.037	99.2%
Indiana	6.732	6.471	96.1%	6.576	6.221	94.6%
Rural Areas	1.860	1.626	87.4%	1.743	1.440	82.6%
Urban Areas	4.872	4.844	99.4%	4.833	4.781	98.9%
Iowa	3.155	3.026	95.9%	2.542	2.259	88.9%
Rural Areas	1.146	1.043	91.1%	0.695	0.565	81.4%
Urban Areas	2.009	1.983	98.7%	1.848	1.694	91.7%
Kansas	2.913	2.788	95.7%	2.521	2.369	94.0%

	Pop. Evaluated	Fixed 25/3 Mbps and Mobile 4G LTE 5/1 Mbps		Pop. Evaluated	Fixed 25/3 Mbps and Mobile 4G LTE 10/3 Mbps	
		Pop.	% of Pop.		Pop.	% of Pop.
Rural Areas	0.755	0.659	87.3%	0.474	0.392	82.8%
Urban Areas	2.158	2.129	98.7%	2.047	1.977	96.6%
Kentucky	4.468	4.189	93.8%	3.991	3.413	85.5%
Rural Areas	1.837	1.571	85.5%	1.408	1.006	71.5%
Urban Areas	2.630	2.619	99.6%	2.583	2.407	93.2%
Louisiana	4.649	4.111	88.4%	4.464	3.915	87.7%
Rural Areas	1.250	0.812	65.0%	1.115	0.722	64.8%
Urban Areas	3.398	3.299	97.1%	3.349	3.192	95.3%
Maine	1.344	1.290	96.0%	1.344	1.276	94.9%
Rural Areas	0.835	0.783	93.8%	0.835	0.770	92.2%
Urban Areas	0.509	0.506	99.5%	0.509	0.506	99.5%
Maryland	6.046	5.892	97.5%	6.046	5.873	97.1%
Rural Areas	0.814	0.763	93.8%	0.814	0.749	92.0%
Urban Areas	5.232	5.129	98.0%	5.232	5.124	97.9%
Massachusetts	6.892	6.749	97.9%	6.892	6.749	97.9%
Rural Areas	0.554	0.516	93.2%	0.554	0.516	93.2%
Urban Areas	6.338	6.233	98.3%	6.338	6.233	98.3%
Michigan	9.986	9.564	95.8%	9.944	9.052	91.0%
Rural Areas	2.568	2.216	86.3%	2.535	1.846	72.8%
Urban Areas	7.418	7.348	99.1%	7.409	7.206	97.3%
Minnesota	5.639	5.499	97.5%	5.379	5.182	96.3%
Rural Areas	1.511	1.380	91.3%	1.318	1.144	86.8%
Urban Areas	4.129	4.119	99.8%	4.061	4.038	99.4%
Mississippi	2.975	2.388	80.3%	2.636	1.803	68.4%
Rural Areas	1.513	0.958	63.4%	1.237	0.577	46.7%
Urban Areas	1.462	1.429	97.8%	1.399	1.226	87.7%
Missouri	6.136	5.713	93.1%	5.756	5.189	90.1%
Rural Areas	1.844	1.455	78.9%	1.539	1.105	71.8%
Urban Areas	4.292	4.258	99.2%	4.217	4.084	96.8%
Montana	1.069	0.921	86.2%	0.829	0.756	91.2%
Rural Areas	0.495	0.358	72.5%	0.319	0.248	77.7%
Urban Areas	0.574	0.563	98.0%	0.509	0.508	99.7%

	Pop. Evaluated	Fixed 25/3 Mbps and Mobile 4G LTE 5/1 Mbps		Pop. Evaluated	Fixed 25/3 Mbps and Mobile 4G LTE 10/3 Mbps	
		Pop.	% of Pop.		Pop.	% of Pop.
N. Mariana Isl.	0.051	0.050	96.5%	*	*	*
Rural Areas	0.006	0.005	86.6%	*	*	*
Urban Areas	0.046	0.045	97.8%	*	*	*
Nebraska	1.934	1.863	96.3%	1.581	1.520	96.1%
Rural Areas	0.522	0.454	86.9%	0.250	0.222	88.8%
Urban Areas	1.412	1.409	99.8%	1.331	1.298	97.5%
Nevada	3.080	2.992	97.1%	3.062	2.967	96.9%
Rural Areas	0.225	0.149	66.0%	0.214	0.137	64.1%
Urban Areas	2.855	2.843	99.6%	2.848	2.830	99.4%
New Hampshire	1.360	1.315	96.7%	1.360	1.315	96.7%
Rural Areas	0.542	0.509	94.0%	0.542	0.509	94.0%
Urban Areas	0.818	0.806	98.6%	0.818	0.806	98.6%
New Jersey	8.882	8.752	98.5%	8.882	8.752	98.5%
Rural Areas	0.464	0.454	97.8%	0.464	0.454	97.8%
Urban Areas	8.418	8.298	98.6%	8.418	8.298	98.6%
New Mexico	2.096	1.824	87.0%	2.079	1.441	69.3%
Rural Areas	0.509	0.293	57.4%	0.492	0.183	37.2%
Urban Areas	1.587	1.531	96.5%	1.587	1.258	79.3%
New York	19.454	19.198	98.7%	19.449	19.121	98.3%
Rural Areas	2.345	2.207	94.1%	2.341	2.158	92.2%
Urban Areas	17.108	16.991	99.3%	17.108	16.963	99.2%
North Carolina	10.488	10.009	95.4%	10.274	9.663	94.0%
Rural Areas	3.492	3.032	86.8%	3.304	2.735	82.8%
Urban Areas	6.996	6.977	99.7%	6.970	6.928	99.4%
North Dakota	0.762	0.737	96.8%	0.541	0.521	96.3%
Rural Areas	0.345	0.325	94.1%	0.167	0.152	90.7%
Urban Areas	0.417	0.413	99.0%	0.373	0.369	98.9%
Ohio	11.689	11.360	97.2%	11.632	11.297	97.1%
Rural Areas	2.590	2.290	88.4%	2.543	2.240	88.1%
Urban Areas	9.099	9.070	99.7%	9.089	9.057	99.7%
Oklahoma	3.954	3.473	87.8%	3.771	3.225	85.5%
Rural Areas	1.361	0.976	71.7%	1.215	0.820	67.5%

	Pop. Evaluated	Fixed 25/3 Mbps and Mobile 4G LTE 5/1 Mbps		Pop. Evaluated	Fixed 25/3 Mbps and Mobile 4G LTE 10/3 Mbps	
		Pop.	% of Pop.		Pop.	% of Pop.
Urban Areas	2.594	2.497	96.3%	2.556	2.405	94.1%
Oregon	4.218	3.998	94.8%	4.192	3.912	93.3%
Rural Areas	0.872	0.689	79.1%	0.848	0.642	75.6%
Urban Areas	3.346	3.309	98.9%	3.344	3.271	97.8%
Pennsylvania	12.802	12.274	95.9%	12.785	12.172	95.2%
Rural Areas	2.731	2.364	86.6%	2.716	2.304	84.8%
Urban Areas	10.071	9.910	98.4%	10.069	9.869	98.0%
Puerto Rico	3.194	3.190	99.9%	*	*	*
Rural Areas	0.207	0.204	98.6%	*	*	*
Urban Areas	2.986	2.985	100.0%	*	*	*
Rhode Island	1.059	1.044	98.6%	1.059	1.044	98.6%
Rural Areas	0.098	0.096	97.6%	0.098	0.096	97.6%
Urban Areas	0.961	0.948	98.7%	0.961	0.948	98.7%
South Carolina	5.149	4.698	91.3%	5.042	4.591	91.1%
Rural Areas	1.757	1.383	78.7%	1.674	1.306	78.0%
Urban Areas	3.392	3.316	97.7%	3.368	3.285	97.5%
South Dakota	0.885	0.840	94.9%	0.592	0.573	96.8%
Rural Areas	0.399	0.356	89.2%	0.173	0.155	89.9%
Urban Areas	0.485	0.484	99.7%	0.419	0.418	99.6%
Tennessee	6.829	6.387	93.5%	6.453	6.003	93.0%
Rural Areas	2.316	1.937	83.6%	1.988	1.607	80.8%
Urban Areas	4.513	4.451	98.6%	4.465	4.396	98.4%
Texas	28.977	27.745	95.7%	28.493	26.382	92.6%
Rural Areas	4.923	4.131	83.9%	4.621	3.558	77.0%
Urban Areas	24.054	23.615	98.2%	23.872	22.825	95.6%
U.S. Virgin Isl.	0.106	0.104	98.1%	*	*	*
Rural Areas	0.007	0.006	93.5%	*	*	*
Urban Areas	0.100	0.098	98.3%	*	*	*
Utah	3.206	3.067	95.7%	3.180	3.044	95.7%
Rural Areas	0.427	0.308	72.2%	0.414	0.297	71.8%
Urban Areas	2.779	2.759	99.3%	2.766	2.746	99.3%
Vermont	0.624	0.581	93.1%	0.584	0.546	93.6%

	Pop. Evaluated	Fixed 25/3 Mbps and Mobile 4G LTE 5/1 Mbps		Pop. Evaluated	Fixed 25/3 Mbps and Mobile 4G LTE 10/3 Mbps	
		Pop.	% of Pop.		Pop.	% of Pop.
Rural Areas	0.384	0.344	89.5%	0.348	0.314	90.1%
Urban Areas	0.240	0.237	98.8%	0.236	0.233	98.7%
Virginia	8.541	8.031	94.0%	8.150	7.418	91.0%
Rural Areas	2.109	1.722	81.6%	1.868	1.311	70.2%
Urban Areas	6.432	6.309	98.1%	6.281	6.106	97.2%
Washington	7.614	7.322	96.2%	7.597	7.195	94.7%
Rural Areas	1.338	1.111	83.0%	1.323	1.025	77.5%
Urban Areas	6.276	6.211	99.0%	6.274	6.170	98.3%
West Virginia	1.792	1.444	80.6%	1.473	1.164	79.0%
Rural Areas	0.914	0.623	68.2%	0.659	0.412	62.6%
Urban Areas	0.879	0.821	93.5%	0.814	0.752	92.3%
Wisconsin	5.822	5.426	93.2%	5.606	4.882	87.1%
Rural Areas	1.763	1.377	78.1%	1.578	0.986	62.5%
Urban Areas	4.060	4.050	99.8%	4.029	3.896	96.7%
Wyoming	0.579	0.536	92.6%	0.498	0.372	74.7%
Rural Areas	0.221	0.178	80.5%	0.166	0.097	58.6%
Urban Areas	0.358	0.358	100.0%	0.332	0.275	82.8%

APPENDIX C

Deployment (Millions) of Fixed Terrestrial 25/3 Mbps or Mobile 4G LTE with a Minimum Advertised Speed of 5/1 Mbps; and Fixed Terrestrial 25/3 Mbps or Mobile 4G LTE with a Median Speed of 10/3 Mbps by State, District of Columbia and U.S. Territory (December 31, 2019)[3]

	Pop. Evaluated	Fixed 25/3 Mbps or Mobile 4G LTE 5/1 Mbps		Pop. Evaluated	Fixed 25/3 Mbps or Mobile 4G LTE 10/3 Mbps	
		Pop.	% of Pop.		Pop.	% of Pop.
United States	331.777	331.554	99.9%	319.341	317.452	99.4%
Rural Areas	65.323	65.108	99.7%	58.572	56.816	97.0%
Urban Areas	266.455	266.447	100.0%	260.768	260.635	99.9%
Alabama	4.902	4.901	100.0%	4.725	4.688	99.2%
Rural Areas	2.025	2.024	99.9%	1.864	1.826	98.0%
Urban Areas	2.877	2.877	100.0%	2.862	2.862	100.0%
Alaska	0.731	0.669	91.5%	0.065	0.003	5.1%
Rural Areas	0.262	0.208	79.3%	0.058	0.003	5.7%
Urban Areas	0.469	0.461	98.3%	0.008	0.000	0.9%
American Samoa	0.048	0.048	100.0%	*	*	*
Rural Areas	0.007	0.007	99.8%	*	*	*
Urban Areas	0.041	0.041	100.0%	*	*	*
Arizona	7.279	7.257	99.7%	7.269	7.145	98.3%
Rural Areas	0.922	0.900	97.6%	0.917	0.814	88.8%
Urban Areas	6.357	6.357	100.0%	6.352	6.330	99.7%
Arkansas	3.018	3.017	100.0%	2.729	2.655	97.3%
Rural Areas	1.343	1.342	100.0%	1.123	1.062	94.5%
Urban Areas	1.675	1.675	100.0%	1.606	1.593	99.2%
California	39.512	39.497	100.0%	39.509	39.462	99.9%
Rural Areas	2.415	2.400	99.4%	2.412	2.368	98.2%
Urban Areas	37.097	37.097	100.0%	37.097	37.094	100.0%
Colorado	5.758	5.755	99.9%	5.645	5.640	99.9%
Rural Areas	0.924	0.920	99.7%	0.837	0.831	99.3%
Urban Areas	4.835	4.835	100.0%	4.809	4.808	100.0%
Connecticut	3.565	3.565	100.0%	3.565	3.565	100.0%

[3] * Insufficient Information.

	Pop. Evaluated	Fixed 25/3 Mbps or Mobile 4G LTE 5/1 Mbps		Pop. Evaluated	Fixed 25/3 Mbps or Mobile 4G LTE 10/3 Mbps	
		Pop.	% of Pop.		Pop.	% of Pop.
Rural Areas	0.433	0.433	100.0%	0.433	0.433	100.0%
Urban Areas	3.132	3.132	100.0%	3.132	3.132	100.0%
Delaware	0.974	0.974	100.0%	0.974	0.974	100.0%
Rural Areas	0.176	0.176	100.0%	0.176	0.176	100.0%
Urban Areas	0.798	0.798	100.0%	0.798	0.798	100.0%
District of Columbia	0.706	0.706	100.0%	0.706	0.706	100.0%
Urban Areas	0.706	0.706	100.0%	0.706	0.706	100.0%
Florida	21.477	21.477	100.0%	21.424	21.277	99.3%
Rural Areas	2.168	2.168	100.0%	2.126	1.997	93.9%
Urban Areas	19.309	19.309	100.0%	19.297	19.279	99.9%
Georgia	10.614	10.614	100.0%	10.006	9.908	99.0%
Rural Areas	2.621	2.621	100.0%	2.170	2.077	95.7%
Urban Areas	7.993	7.993	100.0%	7.835	7.830	99.9%
Guam	0.168	0.168	100.0%	*	*	*
Rural Areas	0.011	0.011	99.8%	*	*	*
Urban Areas	0.157	0.157	100.0%	*	*	*
Hawaii	1.416	1.415	100.0%	1.416	1.415	100.0%
Rural Areas	0.134	0.133	99.7%	0.133	0.133	99.7%
Urban Areas	1.282	1.282	100.0%	1.282	1.282	100.0%
Idaho	1.787	1.780	99.6%	1.672	1.656	99.0%
Rural Areas	0.568	0.561	98.7%	0.482	0.466	96.8%
Urban Areas	1.219	1.219	100.0%	1.191	1.189	99.9%
Illinois	12.672	12.672	100.0%	12.379	12.375	100.0%
Rural Areas	1.466	1.466	100.0%	1.248	1.244	99.6%
Urban Areas	11.206	11.206	100.0%	11.131	11.131	100.0%
Indiana	6.732	6.732	100.0%	6.576	6.556	99.7%
Rural Areas	1.860	1.860	100.0%	1.743	1.724	98.9%
Urban Areas	4.872	4.872	100.0%	4.833	4.833	100.0%
Iowa	3.155	3.154	100.0%	2.542	2.531	99.5%
Rural Areas	1.146	1.145	99.9%	0.695	0.685	98.7%
Urban Areas	2.009	2.009	100.0%	1.848	1.845	99.9%
Kansas	2.913	2.913	100.0%	2.521	2.509	99.5%

	Pop. Evaluated	Fixed 25/3 Mbps or Mobile 4G LTE 5/1 Mbps		Pop. Evaluated	Fixed 25/3 Mbps or Mobile 4G LTE 10/3 Mbps	
		Pop.	% of Pop.		Pop.	% of Pop.
Rural Areas	0.755	0.755	100.0%	0.474	0.463	97.6%
Urban Areas	2.158	2.158	100.0%	2.047	2.047	100.0%
Kentucky	4.468	4.463	99.9%	3.991	3.923	98.3%
Rural Areas	1.837	1.833	99.8%	1.408	1.343	95.4%
Urban Areas	2.630	2.630	100.0%	2.583	2.580	99.9%
Louisiana	4.649	4.649	100.0%	4.464	4.403	98.6%
Rural Areas	1.250	1.250	100.0%	1.115	1.059	94.9%
Urban Areas	3.398	3.398	100.0%	3.349	3.344	99.9%
Maine	1.344	1.343	99.9%	1.344	1.340	99.7%
Rural Areas	0.835	0.834	99.8%	0.835	0.831	99.5%
Urban Areas	0.509	0.509	100.0%	0.509	0.509	100.0%
Maryland	6.046	6.046	100.0%	6.046	6.045	100.0%
Rural Areas	0.814	0.814	100.0%	0.814	0.813	99.9%
Urban Areas	5.232	5.232	100.0%	5.232	5.232	100.0%
Massachusetts	6.892	6.892	100.0%	6.892	6.892	100.0%
Rural Areas	0.554	0.554	100.0%	0.554	0.554	100.0%
Urban Areas	6.338	6.338	100.0%	6.338	6.338	100.0%
Michigan	9.986	9.985	100.0%	9.944	9.868	99.2%
Rural Areas	2.568	2.567	100.0%	2.535	2.463	97.1%
Urban Areas	7.418	7.418	100.0%	7.409	7.405	100.0%
Minnesota	5.639	5.639	100.0%	5.379	5.371	99.9%
Rural Areas	1.511	1.510	100.0%	1.318	1.310	99.4%
Urban Areas	4.129	4.129	100.0%	4.061	4.061	100.0%
Mississippi	2.975	2.974	100.0%	2.636	2.470	93.7%
Rural Areas	1.513	1.512	100.0%	1.237	1.076	86.9%
Urban Areas	1.462	1.462	100.0%	1.399	1.395	99.7%
Missouri	6.136	6.135	100.0%	5.756	5.685	98.8%
Rural Areas	1.844	1.843	100.0%	1.539	1.470	95.5%
Urban Areas	4.292	4.292	100.0%	4.217	4.215	100.0%
Montana	1.069	1.064	99.5%	0.829	0.824	99.4%
Rural Areas	0.495	0.490	99.0%	0.319	0.315	98.5%
Urban Areas	0.574	0.574	100.0%	0.509	0.509	100.0%

	Pop. Evaluated	Fixed 25/3 Mbps or Mobile 4G LTE 5/1 Mbps		Pop. Evaluated	Fixed 25/3 Mbps or Mobile 4G LTE 10/3 Mbps	
		Pop.	% of Pop.		Pop.	% of Pop.
N. Mariana Isl.	0.051	0.051	99.7%	*	*	*
Rural Areas	0.006	0.006	97.2%	*	*	*
Urban Areas	0.046	0.046	100.0%	*	*	*
Nebraska	1.934	1.934	100.0%	1.581	1.580	99.9%
Rural Areas	0.522	0.522	100.0%	0.250	0.249	99.5%
Urban Areas	1.412	1.412	100.0%	1.331	1.331	100.0%
Nevada	3.080	3.076	99.9%	3.062	3.051	99.6%
Rural Areas	0.225	0.221	98.1%	0.214	0.203	94.9%
Urban Areas	2.855	2.855	100.0%	2.848	2.848	100.0%
New Hampshire	1.360	1.360	100.0%	1.360	1.360	100.0%
Rural Areas	0.542	0.541	100.0%	0.542	0.541	100.0%
Urban Areas	0.818	0.818	100.0%	0.818	0.818	100.0%
New Jersey	8.882	8.882	100.0%	8.882	8.882	100.0%
Rural Areas	0.464	0.464	100.0%	0.464	0.464	100.0%
Urban Areas	8.418	8.418	100.0%	8.418	8.418	100.0%
New Mexico	2.096	2.091	99.8%	2.079	1.966	94.6%
Rural Areas	0.509	0.504	99.0%	0.492	0.393	79.8%
Urban Areas	1.587	1.587	100.0%	1.587	1.573	99.1%
New York	19.454	19.452	100.0%	19.449	19.441	100.0%
Rural Areas	2.345	2.344	99.9%	2.341	2.333	99.6%
Urban Areas	17.108	17.108	100.0%	17.108	17.108	100.0%
North Carolina	10.488	10.484	100.0%	10.274	10.245	99.7%
Rural Areas	3.492	3.488	99.9%	3.304	3.275	99.1%
Urban Areas	6.996	6.996	100.0%	6.970	6.970	100.0%
North Dakota	0.762	0.762	100.0%	0.541	0.540	100.0%
Rural Areas	0.345	0.345	100.0%	0.167	0.167	99.9%
Urban Areas	0.417	0.417	100.0%	0.373	0.373	100.0%
Ohio	11.689	11.686	100.0%	11.632	11.614	99.8%
Rural Areas	2.590	2.588	99.9%	2.543	2.526	99.3%
Urban Areas	9.099	9.099	100.0%	9.089	9.088	100.0%
Oklahoma	3.954	3.951	99.9%	3.771	3.696	98.0%
Rural Areas	1.361	1.358	99.8%	1.215	1.145	94.2%

	Pop. Evaluated	Fixed 25/3 Mbps or Mobile 4G LTE 5/1 Mbps		Pop. Evaluated	Fixed 25/3 Mbps or Mobile 4G LTE 10/3 Mbps	
		Pop.	% of Pop.		Pop.	% of Pop.
Urban Areas	2.594	2.594	100.0%	2.556	2.551	99.8%
Oregon	4.218	4.204	99.7%	4.192	4.168	99.4%
Rural Areas	0.872	0.858	98.4%	0.848	0.825	97.2%
Urban Areas	3.346	3.346	100.0%	3.344	3.344	100.0%
Pennsylvania	12.802	12.800	100.0%	12.785	12.766	99.9%
Rural Areas	2.731	2.729	99.9%	2.716	2.697	99.3%
Urban Areas	10.071	10.071	100.0%	10.069	10.069	100.0%
Puerto Rico	3.194	3.194	100.0%	*	*	*
Rural Areas	0.207	0.207	100.0%	*	*	*
Urban Areas	2.986	2.986	100.0%	*	*	*
Rhode Island	1.059	1.059	100.0%	1.059	1.059	100.0%
Rural Areas	0.098	0.098	100.0%	0.098	0.098	100.0%
Urban Areas	0.961	0.961	100.0%	0.961	0.961	100.0%
South Carolina	5.149	5.149	100.0%	5.042	5.014	99.4%
Rural Areas	1.757	1.757	100.0%	1.674	1.651	98.6%
Urban Areas	3.392	3.392	100.0%	3.368	3.363	99.8%
South Dakota	0.885	0.884	100.0%	0.592	0.592	99.9%
Rural Areas	0.399	0.399	99.9%	0.173	0.172	99.8%
Urban Areas	0.485	0.485	100.0%	0.419	0.419	100.0%
Tennessee	6.829	6.825	99.9%	6.453	6.423	99.5%
Rural Areas	2.316	2.312	99.8%	1.988	1.958	98.5%
Urban Areas	4.513	4.513	100.0%	4.465	4.464	100.0%
Texas	28.977	28.975	100.0%	28.493	28.386	99.6%
Rural Areas	4.923	4.921	100.0%	4.621	4.526	97.9%
Urban Areas	24.054	24.054	100.0%	23.872	23.860	99.9%
U.S. Virgin Isl.	0.106	0.106	100.0%	*	*	*
Rural Areas	0.007	0.007	100.0%	*	*	*
Urban Areas	0.100	0.100	100.0%	*	*	*
Utah	3.206	3.202	99.9%	3.180	3.176	99.9%
Rural Areas	0.427	0.423	99.1%	0.414	0.411	99.1%
Urban Areas	2.779	2.779	100.0%	2.766	2.766	100.0%
Vermont	0.624	0.624	100.0%	0.584	0.584	100.0%

	Pop. Evaluated	Fixed 25/3 Mbps or Mobile 4G LTE 5/1 Mbps		Pop. Evaluated	Fixed 25/3 Mbps or Mobile 4G LTE 10/3 Mbps	
		Pop.	% of Pop.		Pop.	% of Pop.
Rural Areas	0.384	0.384	100.0%	0.348	0.348	100.0%
Urban Areas	0.240	0.240	100.0%	0.236	0.236	100.0%
Virginia	8.541	8.535	99.9%	8.150	8.048	98.8%
Rural Areas	2.109	2.104	99.7%	1.868	1.770	94.7%
Urban Areas	6.432	6.432	100.0%	6.281	6.278	99.9%
Washington	7.614	7.604	99.9%	7.597	7.574	99.7%
Rural Areas	1.338	1.328	99.2%	1.323	1.301	98.3%
Urban Areas	6.276	6.276	100.0%	6.274	6.273	100.0%
West Virginia	1.792	1.760	98.2%	1.473	1.418	96.3%
Rural Areas	0.914	0.881	96.4%	0.659	0.604	91.7%
Urban Areas	0.879	0.879	100.0%	0.814	0.814	100.0%
Wisconsin	5.822	5.822	100.0%	5.606	5.492	98.0%
Rural Areas	1.763	1.762	100.0%	1.578	1.465	92.9%
Urban Areas	4.060	4.060	100.0%	4.029	4.027	100.0%
Wyoming	0.579	0.577	99.8%	0.498	0.492	98.7%
Rural Areas	0.221	0.220	99.4%	0.166	0.160	96.2%
Urban Areas	0.358	0.358	100.0%	0.332	0.332	100.0%

APPENDIX D

Deployment of Fixed Terrestrial Fixed 25/3 Mbps and Mobile 4G LTE with a Minimum Advertised Speed of 5/1 Mbps Services By State and County (December 31, 2019)[4]

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Alabama	**4,902,390**	**87.6%**	**100.0%**	**87.6%**	**96.8**	**$27,525**
Autauga County	55,869	80.6%	100.0%	80.6%	94.0	$29,372
Baldwin County	223,230	83.6%	99.8%	83.4%	140.4	$31,203
Barbour County	24,686	68.9%	100.0%	68.9%	27.9	$18,461
Bibb County	22,394	33.7%	99.9%	33.7%	36.0	$20,199
Blount County	57,826	75.8%	100.0%	75.8%	89.7	$22,656
Bullock County	10,101	93.6%	100.0%	93.6%	16.2	$20,346
Butler County	19,448	68.1%	100.0%	68.1%	25.0	$20,430
Calhoun County	113,605	93.0%	100.0%	93.0%	187.5	$24,706
Chambers County	33,254	84.5%	100.0%	84.5%	55.7	$22,827
Cherokee County	26,196	98.9%	100.0%	98.9%	47.3	$23,356
Chilton County	44,424	63.4%	100.0%	63.4%	64.1	$24,611
Choctaw County	12,589	21.5%	99.7%	21.5%	13.8	$22,182
Clarke County	23,622	55.8%	99.2%	55.8%	19.1	$21,111
Clay County	13,235	42.9%	100.0%	42.9%	21.9	$23,147
Cleburne County	14,910	17.3%	99.7%	17.3%	26.6	$21,989
Coffee County	52,340	91.3%	100.0%	91.3%	77.1	$27,577
Colbert County	55,241	84.1%	100.0%	84.1%	93.2	$24,918
Conecuh County	12,067	44.2%	100.0%	44.2%	14.2	$17,542
Coosa County	10,663	78.3%	100.0%	78.3%	16.4	$22,963
Covington County	37,049	83.4%	100.0%	83.4%	36.0	$23,071
Crenshaw County	13,772	72.9%	100.0%	72.9%	22.6	$23,353
Cullman County	83,768	78.4%	100.0%	78.4%	114.0	$22,980
Dale County	49,172	94.8%	100.0%	94.8%	87.6	$23,837
Dallas County	37,196	76.4%	100.0%	76.4%	38.0	$18,910
DeKalb County	71,513	98.8%	100.0%	98.8%	92.0	$21,004
Elmore County	81,209	92.7%	100.0%	92.7%	131.3	$27,475
Escambia County	36,633	74.7%	99.7%	74.7%	38.8	$18,161

[4] NA: Not available data.

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Etowah County	102,268	95.1%	100.0%	95.1%	191.2	$24,065
Fayette County	16,302	19.9%	100.0%	19.9%	26.0	$21,862
Franklin County	31,362	66.0%	100.0%	66.0%	49.5	$19,776
Geneva County	26,271	59.6%	100.0%	59.6%	45.7	$20,471
Greene County	8,111	0.9%	100.0%	0.9%	12.5	$14,209
Hale County	14,651	51.4%	100.0%	51.4%	22.8	$20,272
Henry County	17,205	64.1%	99.9%	64.1%	30.6	$24,069
Houston County	105,882	87.3%	100.0%	87.3%	182.6	$25,990
Jackson County	51,626	96.4%	99.5%	95.9%	47.9	$21,608
Jefferson County	658,573	99.1%	100.0%	99.1%	592.6	$30,657
Lamar County	13,805	43.1%	100.0%	43.1%	22.8	$21,666
Lauderdale County	92,729	81.7%	100.0%	81.7%	138.9	$27,189
Lawrence County	32,924	55.3%	99.9%	55.3%	47.7	$23,557
Lee County	164,542	96.3%	100.0%	96.3%	270.8	$26,960
Limestone County	98,902	90.8%	100.0%	90.8%	176.6	$27,699
Lowndes County	9,726	14.4%	99.8%	14.4%	13.6	$19,491
Macon County	17,326	65.0%	100.0%	65.0%	28.5	$20,125
Madison County	372,890	96.4%	100.0%	96.4%	465.2	$35,526
Marengo County	18,863	17.0%	100.0%	17.0%	19.3	$23,056
Marion County	29,709	82.4%	100.0%	82.4%	40.0	$21,391
Marshall County	96,772	96.0%	100.0%	96.0%	171.0	$23,833
Mobile County	413,210	93.5%	100.0%	93.5%	336.1	$25,215
Monroe County	20,733	89.6%	98.7%	89.2%	20.2	$18,890
Montgomery County	226,485	97.5%	100.0%	97.5%	288.8	$28,008
Morgan County	119,676	91.7%	100.0%	91.7%	206.6	$25,907
Perry County	8,923	0.1%	99.9%	0.1%	12.4	$13,678
Pickens County	19,930	57.2%	100.0%	57.2%	22.6	$22,417
Pike County	33,114	92.5%	99.9%	92.4%	49.3	$21,137
Randolph County	22,722	64.2%	100.0%	64.2%	39.1	$23,247
Russell County	57,961	89.3%	100.0%	89.3%	90.4	$22,055
Shelby County	217,698	95.5%	100.0%	95.5%	277.3	$36,576
St. Clair County	89,511	89.0%	100.0%	89.0%	141.7	$24,861
Sumter County	12,427	46.7%	100.0%	46.7%	13.7	$15,882
Talladega County	79,978	81.2%	100.0%	81.2%	108.6	$22,498

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Tallapoosa County	40,367	91.7%	100.0%	91.7%	56.3	$23,655
Tuscaloosa County	209,355	92.3%	100.0%	92.3%	158.4	$26,064
Walker County	63,521	77.2%	100.0%	77.2%	80.3	$22,772
Washington County	16,326	31.1%	99.1%	30.8%	15.1	$22,776
Wilcox County	10,373	41.4%	100.0%	41.4%	11.7	$16,584
Winston County	23,629	62.7%	99.9%	62.7%	38.5	$21,799
Alaska	**731,224**	**85.2%**	**91.0%**	**84.7%**	**1.3**	**$35,735**
Aleutians East Borough	3,337	0.0%	0.0%	0.0%	0.5	$32,510
Aleutians West Census Area	5,634	0.0%	51.0%	0.0%	1.3	$37,070
Anchorage Municipality	288,000	99.7%	99.9%	99.5%	168.9	$39,839
Bethel Census Area	18,386	0.0%	0.0%	0.0%	0.5	$19,760
Bristol Bay Borough	836	0.0%	0.0%	0.0%	1.7	$45,259
Denali Borough	2,097	55.4%	97.2%	53.9%	0.2	$34,956
Dillingham Census Area	4,916	0.0%	0.0%	0.0%	0.3	$25,334
Fairbanks North Star Borough	96,849	89.6%	99.8%	89.6%	13.2	$36,374
Haines Borough	2,530	91.9%	78.0%	74.1%	1.1	$33,521
Hoonah-Angoon Census Area	2,148	25.0%	78.9%	20.3%	0.3	$35,355
Juneau City and Borough	31,974	99.3%	99.9%	99.2%	11.8	$43,276
Kenai Peninsula Borough	58,708	97.5%	97.9%	95.9%	3.7	$33,820
Ketchikan Gateway Borough	13,901	98.9%	99.6%	98.7%	2.9	$34,900
Kodiak Island Borough	12,998	85.9%	93.2%	85.3%	2.0	$32,516
Kusilvak Census Area	7,996	0.0%	7.5%	0.0%	0.5	$12,578
Lake and Peninsula Borough	1,592	0.0%	0.0%	0.0%	0.1	$24,571
Matanuska-Susitna Borough	108,317	93.9%	99.7%	93.7%	4.4	$30,943
Nome Census Area	10,004	35.1%	56.2%	35.1%	0.4	$22,293
North Slope Borough	9,832	0.6%	75.2%	0.6%	0.1	$49,903
Northwest Arctic Borough	7,621	0.8%	12.9%	0.0%	0.2	$23,230
Petersburg Borough	3,263	79.7%	94.1%	76.7%	1.0	$33,227

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Prince of Wales-Hyder Census Area	6,203	2.8%	87.7%	2.8%	1.6	$27,236
Sitka City and Borough	8,493	97.7%	99.2%	97.7%	3.0	$38,423
Skagway Municipality	1,183	96.7%	79.6%	78.7%	2.6	$39,842
Southeast Fairbanks Census Area	6,893	51.9%	83.8%	50.7%	0.3	$32,409
Valdez-Cordova Census Area	9,202	84.4%	96.5%	82.9%	0.3	$38,507
Wrangell City and Borough	2,502	89.6%	73.8%	70.5%	1.0	$31,489
Yakutat City and Borough	579	0.0%	0.0%	0.0%	0.1	$31,878
Yukon-Koyukuk Census Area	5,230	1.3%	12.8%	1.3%	0.0	$22,386
Arizona	**7,278,594**	**94.8%**	**99.7%**	**94.8%**	**64.1**	**$30,530**
Apache County	71,886	23.0%	86.7%	21.7%	6.4	$14,499
Cochise County	125,922	76.4%	99.9%	76.3%	20.4	$25,436
Coconino County	143,476	69.7%	99.2%	69.7%	7.7	$26,387
Gila County	54,018	73.9%	98.4%	73.4%	11.4	$22,939
Graham County	38,837	76.1%	99.4%	75.9%	8.4	$18,113
Greenlee County	9,498	52.8%	99.3%	52.8%	5.2	$25,349
La Paz County	21,108	44.9%	99.9%	44.9%	4.7	$21,845
Maricopa County	4,485,354	99.3%	100.0%	99.3%	487.5	$31,697
Mohave County	212,178	76.1%	99.7%	76.1%	15.9	$24,829
Navajo County	110,924	59.3%	90.3%	58.3%	11.1	$18,333
Pima County	1,047,273	98.6%	100.0%	98.6%	114.0	$28,480
Pinal County	462,736	94.2%	100.0%	94.2%	86.2	$23,653
Santa Cruz County	46,498	97.1%	99.7%	96.9%	37.6	$20,324
Yavapai County	235,099	92.8%	99.9%	92.7%	28.9	$28,829
Yuma County	213,787	89.7%	100.0%	89.7%	38.8	$21,178
Arkansas	**3,017,742**	**81.0%**	**100.0%**	**81.0%**	**58.0**	**$26,626**
Arkansas County	17,486	25.8%	100.0%	25.8%	17.7	$24,714
Ashley County	19,657	52.3%	100.0%	52.3%	21.2	$22,052
Baxter County	41,932	77.3%	99.9%	77.2%	75.7	$26,004
Benton County	279,126	96.6%	100.0%	96.6%	329.4	$32,624

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Boone County	37,432	90.6%	100.0%	90.6%	63.4	$23,998
Bradley County	10,763	64.5%	100.0%	64.5%	16.6	$22,411
Calhoun County	5,189	8.5%	100.0%	8.5%	8.3	$24,509
Carroll County	28,377	97.6%	100.0%	97.6%	45.0	$24,185
Chicot County	10,118	74.7%	100.0%	74.7%	15.7	$21,843
Clark County	22,319	82.1%	100.0%	82.1%	25.8	$21,571
Clay County	14,551	59.5%	100.0%	59.5%	22.8	$20,353
Cleburne County	24,919	56.3%	100.0%	56.3%	45.0	$26,620
Cleveland County	7,956	83.9%	100.0%	83.9%	13.3	$23,538
Columbia County	23,457	61.3%	100.0%	61.3%	30.6	$21,372
Conway County	20,846	47.3%	100.0%	47.3%	37.7	$23,750
Craighead County	110,311	83.2%	100.0%	83.2%	156.0	$26,432
Crawford County	63,257	87.3%	100.0%	87.3%	106.7	$23,851
Crittenden County	47,955	79.9%	100.0%	79.9%	78.6	$21,882
Cross County	16,419	59.1%	100.0%	59.1%	26.6	$24,486
Dallas County	7,009	57.4%	100.0%	57.4%	10.5	$19,401
Desha County	11,361	70.4%	100.0%	70.4%	14.8	$18,475
Drew County	18,219	70.1%	100.0%	70.1%	22.0	$23,005
Faulkner County	126,006	95.1%	100.0%	95.1%	194.5	$26,163
Franklin County	17,715	24.9%	100.0%	24.9%	29.1	$20,262
Fulton County	12,475	44.8%	100.0%	44.8%	20.2	$19,413
Garland County	99,386	97.0%	100.0%	97.0%	146.6	$26,791
Grant County	18,265	68.3%	100.0%	68.3%	28.9	$25,907
Greene County	45,325	76.7%	100.0%	76.7%	78.5	$22,874
Hempstead County	21,532	66.5%	100.0%	66.5%	29.6	$20,168
Hot Spring County	33,771	59.4%	100.0%	59.4%	54.9	$21,064
Howard County	13,202	22.6%	100.0%	22.6%	22.4	$24,590
Independence County	37,824	73.0%	100.0%	73.0%	49.5	$23,426
Izard County	13,629	60.5%	100.0%	60.5%	23.5	$20,501
Jackson County	16,719	68.4%	100.0%	68.4%	26.4	$19,848
Jefferson County	66,824	66.0%	100.0%	66.0%	76.7	$20,925
Johnson County	26,578	62.1%	99.6%	62.1%	40.3	$19,681
Lafayette County	6,624	16.6%	100.0%	16.6%	12.5	$26,005

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Lawrence County	16,406	57.9%	100.0%	57.9%	27.9	$20,451
Lee County	8,857	32.1%	100.0%	32.1%	14.7	$15,771
Lincoln County	13,024	30.4%	100.0%	30.4%	23.2	$13,636
Little River County	12,259	50.8%	100.0%	50.8%	23.0	$26,216
Logan County	21,466	35.6%	100.0%	35.6%	30.3	$22,221
Lonoke County	73,309	86.1%	100.0%	86.1%	95.1	$26,222
Madison County	16,576	45.4%	100.0%	45.4%	19.9	$23,875
Marion County	16,694	60.8%	100.0%	60.8%	28.0	$19,710
Miller County	43,257	93.4%	100.0%	93.4%	69.1	$22,938
Mississippi County	40,651	92.6%	100.0%	92.6%	45.1	$20,879
Monroe County	6,701	5.6%	100.0%	5.6%	11.0	$22,274
Montgomery County	8,986	52.9%	100.0%	52.9%	11.5	$22,347
Nevada County	8,252	42.9%	100.0%	42.9%	13.4	$18,618
Newton County	7,753	15.2%	99.5%	15.2%	9.4	$18,907
Ouachita County	23,382	63.1%	100.0%	63.1%	31.9	$21,520
Perry County	10,455	76.9%	99.6%	76.9%	19.0	$21,699
Phillips County	17,782	74.6%	100.0%	74.6%	25.6	$18,402
Pike County	10,718	53.1%	100.0%	53.1%	17.8	$21,919
Poinsett County	23,528	79.1%	100.0%	79.1%	31.0	$19,413
Polk County	19,964	62.9%	100.0%	62.9%	23.3	$20,176
Pope County	64,072	79.5%	100.0%	79.5%	78.9	$22,110
Prairie County	8,062	13.7%	100.0%	13.7%	12.4	$24,075
Pulaski County	391,911	98.3%	100.0%	98.3%	515.8	$31,359
Randolph County	17,958	57.2%	99.4%	57.0%	27.5	$21,338
Saline County	122,425	91.6%	100.0%	91.6%	169.2	$29,358
Scott County	10,281	37.3%	99.8%	37.2%	11.5	$17,375
Searcy County	7,881	55.2%	99.3%	55.2%	11.8	$20,709
Sebastian County	127,826	95.9%	100.0%	95.9%	240.3	$25,084
Sevier County	17,007	79.8%	100.0%	79.8%	30.1	$20,627
Sharp County	17,442	45.3%	100.0%	45.3%	28.9	$20,721
St. Francis County	24,994	37.9%	100.0%	37.9%	39.4	$17,491
Stone County	12,506	41.5%	99.3%	40.9%	20.6	$20,496
Union County	38,682	68.0%	99.9%	68.0%	37.2	$24,522
Van Buren County	16,545	44.7%	99.9%	44.7%	23.4	$21,622

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Washington County	239,182	96.4%	100.0%	96.4%	253.9	$27,823
White County	78,753	71.7%	100.0%	71.7%	76.1	$23,747
Woodruff County	6,320	27.3%	100.0%	27.3%	10.8	$21,276
Yell County	21,341	86.4%	99.9%	86.4%	22.9	$21,584
California	**39,512,145**	**98.5%**	**99.9%**	**98.5%**	**253.6**	**$37,124**
Alameda County	1,671,329	99.9%	100.0%	99.9%	2,261.6	$44,283
Alpine County	1,129	18.2%	95.8%	16.3%	1.5	$29,041
Amador County	39,751	97.6%	99.8%	97.5%	66.9	$30,100
Butte County	219,186	98.7%	99.6%	98.5%	133.9	$27,537
Calaveras County	45,905	96.3%	99.7%	96.3%	45.0	$32,494
Colusa County	21,547	83.6%	99.6%	83.6%	18.7	$27,336
Contra Costa County	1,153,522	99.2%	100.0%	99.2%	1,611.2	$45,524
Del Norte County	27,812	93.6%	97.0%	91.6%	27.6	$22,832
El Dorado County	192,841	98.3%	99.9%	98.3%	112.9	$40,382
Fresno County	999,094	99.6%	99.9%	99.6%	167.7	$23,284
Glenn County	28,393	96.8%	99.9%	96.8%	21.6	$21,736
Humboldt County	135,558	94.7%	98.8%	94.5%	38.0	$26,747
Imperial County	181,215	85.7%	100.0%	85.7%	43.4	$17,590
Inyo County	18,039	89.8%	97.8%	89.3%	1.8	$31,540
Kern County	900,197	96.2%	99.9%	96.2%	110.7	$22,553
Kings County	152,929	99.9%	100.0%	99.9%	110.1	$21,186
Lake County	64,386	93.4%	99.7%	93.4%	51.2	$25,404
Lassen County	30,573	91.4%	99.9%	91.4%	6.7	$21,897
Los Angeles County	10,039,107	99.5%	100.0%	99.5%	2,474.0	$32,469
Madera County	157,327	99.7%	100.0%	99.7%	73.6	$21,394
Marin County	258,826	98.3%	99.9%	98.2%	497.4	$69,275
Mariposa County	17,203	82.6%	97.5%	82.6%	11.9	$29,776
Mendocino County	86,749	89.6%	96.4%	89.4%	24.7	$27,395
Merced County	277,677	100.0%	100.0%	100.0%	143.5	$21,634
Modoc County	8,841	45.3%	97.7%	45.1%	2.3	$23,235
Mono County	14,444	83.8%	98.0%	82.4%	4.7	$33,421
Monterey County	434,061	98.9%	99.5%	98.5%	132.3	$28,836
Napa County	137,744	98.9%	100.0%	98.9%	184.1	$42,677
Nevada County	99,755	96.7%	99.9%	96.7%	104.2	$37,145

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Orange County	3,175,692	98.6%	100.0%	98.6%	4,017.0	$39,590
Placer County	398,324	98.6%	99.9%	98.6%	283.1	$41,508
Plumas County	18,807	96.2%	98.0%	94.7%	7.4	$32,710
Riverside County	2,470,538	97.5%	100.0%	97.5%	342.8	$27,142
Sacramento County	1,552,054	98.2%	100.0%	98.2%	1,608.9	$31,311
San Benito County	62,802	98.8%	99.5%	98.6%	45.2	$31,475
San Bernardino County	2,180,073	96.9%	100.0%	96.9%	108.7	$23,956
San Diego County	3,338,330	98.1%	100.0%	98.0%	793.6	$36,156
San Francisco County	881,549	100.0%	100.0%	100.0%	18,807.3	$64,157
San Joaquin County	762,142	99.9%	100.0%	99.9%	547.8	$26,145
San Luis Obispo County	283,111	95.2%	99.9%	95.1%	85.8	$35,832
San Mateo County	766,573	100.0%	99.9%	99.9%	1,709.5	$57,375
Santa Barbara County	446,499	94.2%	99.8%	94.1%	163.2	$34,229
Santa Clara County	1,927,852	100.0%	100.0%	100.0%	1,494.3	$52,451
Santa Cruz County	273,213	100.0%	99.9%	99.9%	613.7	$39,001
Shasta County	180,080	93.6%	99.7%	93.5%	47.7	$27,983
Sierra County	3,005	66.0%	76.4%	66.0%	3.2	$31,972
Siskiyou County	43,539	86.1%	97.3%	85.8%	6.9	$28,130
Solano County	447,641	94.9%	100.0%	94.9%	544.7	$33,700
Sonoma County	494,336	96.8%	99.9%	96.8%	313.7	$39,929
Stanislaus County	550,660	100.0%	100.0%	100.0%	368.4	$25,101
Sutter County	96,971	99.3%	100.0%	99.3%	161.0	$26,070
Tehama County	65,084	98.0%	99.8%	98.0%	22.1	$23,126
Trinity County	12,285	24.8%	86.2%	23.6%	3.9	$25,964
Tulare County	466,193	99.5%	99.8%	99.4%	96.6	$20,421
Tuolumne County	54,478	99.4%	99.6%	99.1%	24.5	$33,685
Ventura County	846,006	98.6%	100.0%	98.5%	459.0	$36,891
Yolo County	220,500	94.1%	100.0%	94.1%	217.3	$32,598
Yuba County	78,668	99.5%	99.5%	99.2%	124.5	$23,867
Colorado	**5,758,280**	**97.2%**	**99.9%**	**97.1%**	**55.6**	**$38,057**
Adams County	517,368	99.3%	100.0%	99.3%	443.1	$28,897

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Alamosa County	16,233	99.7%	100.0%	99.7%	22.5	$21,328
Arapahoe County	656,533	99.8%	100.0%	99.8%	822.6	$38,972
Archuleta County	14,029	87.8%	99.2%	87.8%	10.4	$31,035
Baca County	3,581	34.3%	100.0%	34.3%	1.4	$23,862
Bent County	5,577	38.0%	99.8%	38.0%	3.7	$14,777
Boulder County	326,196	97.5%	100.0%	97.5%	449.1	$43,831
Broomfield County	70,454	98.4%	100.0%	98.4%	2,132.8	$47,016
Chaffee County	20,356	88.8%	98.9%	87.8%	20.1	$29,365
Cheyenne County	1,831	54.8%	100.0%	54.8%	1.0	$25,234
Clear Creek County	9,699	90.1%	99.7%	90.1%	24.5	$40,655
Conejos County	8,205	99.9%	99.2%	99.0%	6.4	$19,545
Costilla County	3,886	95.5%	99.8%	95.4%	3.2	$20,715
Crowley County	6,056	42.5%	100.0%	42.5%	7.7	$14,988
Custer County	5,068	51.5%	99.4%	51.3%	6.9	$26,976
Delta County	31,162	99.5%	99.7%	99.3%	27.3	$24,886
Denver County	727,016	100.0%	100.0%	100.0%	4,751.7	$41,196
Dolores County	2,055	29.1%	97.5%	28.3%	1.9	$24,505
Douglas County	351,146	100.0%	100.0%	100.0%	417.9	$51,017
Eagle County	55,127	93.0%	99.3%	93.0%	32.7	$41,064
El Paso County	720,388	98.1%	100.0%	98.1%	338.7	$32,348
Elbert County	26,716	100.0%	100.0%	100.0%	14.4	$43,349
Fremont County	47,839	85.3%	100.0%	85.3%	31.2	$21,965
Garfield County	60,060	99.7%	99.5%	99.2%	20.4	$32,491
Gilpin County	6,240	87.7%	100.0%	87.7%	41.6	$48,460
Grand County	15,734	84.7%	99.7%	84.7%	8.5	$34,717
Gunnison County	17,462	90.6%	92.1%	87.2%	5.4	$30,127
Hinsdale County	820	83.4%	2.0%	0.0%	0.7	$34,644
Huerfano County	6,897	71.5%	99.8%	71.5%	4.3	$25,636
Jackson County	1,392	85.6%	98.9%	85.6%	0.9	$25,467
Jefferson County	582,872	99.6%	100.0%	99.6%	762.7	$41,930
Kiowa County	1,406	55.1%	100.0%	55.1%	0.8	$24,012
Kit Carson County	7,097	97.8%	100.0%	97.8%	3.3	$27,471
La Plata County	56,221	98.0%	100.0%	98.0%	33.2	$37,864
Lake County	8,127	92.0%	99.4%	91.6%	21.6	$28,062

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Larimer County	356,889	93.9%	99.8%	93.9%	137.5	$35,390
Las Animas County	14,506	71.6%	100.0%	71.6%	3.0	$25,118
Lincoln County	5,699	55.2%	100.0%	55.2%	2.2	$16,219
Logan County	22,402	92.7%	100.0%	92.7%	12.2	$25,776
Mesa County	154,210	96.6%	99.9%	96.6%	46.3	$28,518
Mineral County	769	89.2%	75.6%	69.1%	0.9	$35,229
Moffat County	13,283	94.8%	99.5%	94.7%	2.8	$27,845
Montezuma County	26,183	84.3%	99.7%	84.2%	12.9	$25,161
Montrose County	42,758	94.6%	99.9%	94.5%	19.1	$25,803
Morgan County	29,061	89.5%	100.0%	89.5%	22.7	$24,189
Otero County	18,278	85.3%	100.0%	85.3%	14.5	$20,109
Ouray County	4,952	96.5%	100.0%	96.5%	9.1	$36,138
Park County	18,845	91.6%	98.7%	90.3%	8.6	$35,939
Phillips County	4,265	100.0%	100.0%	100.0%	6.2	$29,236
Pitkin County	17,767	97.9%	96.8%	95.2%	18.3	$56,180
Prowers County	12,172	70.2%	100.0%	70.2%	7.4	$21,612
Pueblo County	168,424	96.3%	100.0%	96.3%	70.6	$24,257
Rio Blanco County	6,324	72.4%	95.2%	72.4%	2.0	$27,057
Rio Grande County	11,267	98.9%	99.8%	98.6%	12.4	$22,413
Routt County	25,638	96.0%	98.3%	94.7%	10.9	$40,727
Saguache County	6,824	80.0%	98.7%	79.4%	2.2	$22,901
San Juan County	728	65.5%	94.5%	65.5%	1.9	$33,984
San Miguel County	8,179	71.1%	100.0%	71.1%	6.4	$45,396
Sedgwick County	2,248	82.4%	100.0%	82.4%	4.1	$25,048
Summit County	31,011	89.6%	100.0%	89.6%	51.0	$38,310
Teller County	25,388	86.9%	100.0%	86.9%	45.6	$34,392
Washington County	4,908	82.3%	100.0%	82.3%	1.9	$26,680
Weld County	324,434	95.3%	100.0%	95.3%	81.4	$30,626
Yuma County	10,019	98.7%	100.0%	98.7%	4.2	$25,846
Connecticut	**3,565,287**	**99.2%**	**100.0%**	**99.2%**	**736.3**	**$44,026**
Fairfield County	943,332	99.3%	100.0%	99.3%	1,509.6	$55,613
Hartford County	891,720	99.0%	100.0%	99.0%	1,213.1	$39,260
Litchfield County	180,333	99.1%	100.0%	99.1%	195.9	$42,443
Middlesex County	162,436	99.4%	100.0%	99.4%	439.8	$45,293

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
New Haven County	854,757	99.8%	100.0%	99.8%	1,414.0	$36,678
New London County	265,206	98.8%	100.0%	98.8%	398.9	$38,109
Tolland County	150,721	97.4%	100.0%	97.4%	367.4	$39,668
Windham County	116,782	99.6%	100.0%	99.6%	227.7	$31,106
Delaware	**973,757**	**97.8%**	**100.0%**	**97.8%**	**499.7**	**$33,745**
Kent County	180,784	96.3%	100.0%	96.3%	308.4	$28,100
New Castle County	558,753	98.0%	100.0%	98.0%	1,310.7	$35,847
Sussex County	234,220	98.6%	99.8%	98.5%	250.2	$33,983
District of Columbia	**705,732**	**98.0%**	**100.0%**	**98.0%**	**11,560.2**	**$55,328**
Florida	**21,477,405**	**96.3%**	**100.0%**	**96.2%**	**400.5**	**$31,359**
Alachua County	269,043	86.4%	100.0%	86.4%	307.5	$27,896
Baker County	29,208	84.5%	99.5%	84.1%	49.9	$24,070
Bay County	174,705	93.9%	100.0%	93.9%	230.3	$28,017
Bradford County	28,200	53.3%	100.0%	53.3%	95.9	$20,481
Brevard County	601,937	99.5%	99.9%	99.4%	592.7	$30,987
Broward County	1,952,778	98.1%	100.0%	98.1%	1,614.2	$31,464
Calhoun County	14,105	94.1%	100.0%	94.1%	24.9	$18,921
Charlotte County	188,904	97.3%	99.9%	97.2%	277.7	$30,528
Citrus County	149,653	94.0%	100.0%	94.0%	257.3	$25,983
Clay County	219,248	93.1%	100.0%	93.1%	362.8	$29,138
Collier County	384,898	95.3%	99.8%	95.1%	192.6	$43,256
Columbia County	71,684	82.5%	100.0%	82.5%	89.9	$23,901
DeSoto County	38,000	100.0%	100.0%	100.0%	59.6	$18,311
Dixie County	16,825	0.8%	99.7%	0.8%	23.9	$20,527
Duval County	957,755	100.0%	100.0%	100.0%	1,256.6	$30,012
Escambia County	318,313	95.4%	100.0%	95.4%	484.9	$26,730
Flagler County	115,079	96.3%	100.0%	96.3%	237.1	$27,689
Franklin County	12,125	83.4%	99.9%	83.3%	22.7	$25,037
Gadsden County	45,660	91.0%	100.0%	91.0%	88.4	$20,158
Gilchrist County	18,582	28.2%	100.0%	28.2%	53.1	$21,379
Glades County	13,810	64.7%	100.0%	64.7%	17.1	$21,020
Gulf County	13,639	91.9%	99.8%	91.7%	24.2	$21,255
Hamilton County	14,428	72.0%	100.0%	72.0%	28.1	$15,097
Hardee County	26,937	100.0%	100.0%	100.0%	42.2	$18,257

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Hendry County	42,022	76.4%	100.0%	76.4%	36.5	$18,900
Hernando County	193,901	97.8%	100.0%	97.8%	410.3	$24,551
Highlands County	106,219	100.0%	100.0%	100.0%	104.5	$23,722
Hillsborough County	1,471,919	99.7%	100.0%	99.7%	1,442.8	$31,173
Holmes County	19,617	34.2%	100.0%	34.2%	41.0	$18,574
Indian River County	159,922	100.0%	99.8%	99.8%	318.0	$35,172
Jackson County	46,414	59.9%	100.0%	59.9%	50.6	$18,882
Jefferson County	14,246	30.8%	100.0%	30.8%	23.8	$23,448
Lafayette County	8,422	60.7%	100.0%	60.7%	15.5	$19,870
Lake County	367,102	92.2%	100.0%	92.2%	391.2	$27,052
Lee County	770,574	91.3%	99.9%	91.2%	982.2	$31,924
Leon County	293,582	96.5%	100.0%	96.5%	440.3	$29,754
Levy County	41,502	14.0%	99.9%	14.0%	37.1	$22,025
Liberty County	8,354	67.5%	99.7%	67.4%	10.0	$17,197
Madison County	18,493	57.3%	100.0%	57.3%	26.6	$19,223
Manatee County	403,233	99.4%	100.0%	99.4%	542.8	$32,070
Marion County	365,569	92.0%	100.0%	92.0%	230.7	$24,570
Martin County	161,000	97.3%	99.9%	97.3%	296.2	$40,389
Miami-Dade County	2,716,940	96.5%	99.9%	96.4%	1,431.7	$26,838
Monroe County	74,228	96.1%	99.4%	95.6%	75.5	$43,477
Nassau County	88,624	92.8%	100.0%	92.8%	136.6	$35,335
Okaloosa County	210,720	92.9%	99.9%	92.9%	226.5	$31,901
Okeechobee County	42,168	100.0%	100.0%	100.0%	54.8	$19,943
Orange County	1,393,450	100.0%	100.0%	100.0%	1,542.4	$28,859
Osceola County	375,743	100.0%	100.0%	100.0%	283.1	$21,331
Palm Beach County	1,496,764	96.9%	100.0%	96.9%	759.9	$37,998
Pasco County	553,914	98.6%	100.0%	98.6%	741.6	$27,786
Pinellas County	974,996	99.9%	99.9%	99.8%	3,561.0	$33,478
Polk County	724,749	95.4%	100.0%	95.4%	403.1	$23,812
Putnam County	74,518	83.0%	100.0%	83.0%	102.4	$19,976
Santa Rosa County	184,291	88.3%	100.0%	88.3%	182.2	$30,904
Sarasota County	433,725	98.9%	100.0%	98.9%	780.3	$39,364
Seminole County	471,818	100.0%	100.0%	100.0%	1,525.8	$33,419
St. Johns County	264,667	100.0%	99.9%	99.9%	440.6	$41,393

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
St. Lucie County	328,293	94.4%	100.0%	94.4%	574.0	$25,736
Sumter County	132,415	93.2%	100.0%	93.2%	242.1	$33,629
Suwannee County	44,417	88.2%	100.0%	88.2%	64.5	$21,755
Taylor County	21,569	71.3%	100.0%	71.3%	20.7	$16,919
Union County	15,237	72.0%	100.0%	72.0%	62.6	$15,475
Volusia County	553,283	100.0%	100.0%	100.0%	502.5	$27,272
Wakulla County	33,739	92.3%	99.9%	92.3%	55.6	$24,322
Walton County	74,062	81.5%	99.8%	81.4%	71.4	$33,731
Washington County	25,468	31.1%	100.0%	31.1%	43.7	$18,112
Georgia	**10,613,883**	**93.8%**	**100.0%**	**93.8%**	**184.5**	**$31,187**
Appling County	18,386	51.0%	100.0%	51.0%	36.3	$20,421
Atkinson County	8,165	64.4%	100.0%	64.4%	24.1	$18,565
Bacon County	11,164	77.8%	100.0%	77.8%	43.2	$19,634
Baker County	3,038	3.3%	100.0%	3.3%	8.9	$22,864
Baldwin County	44,890	96.2%	100.0%	96.2%	174.1	$20,305
Banks County	19,230	83.2%	100.0%	83.2%	82.9	$20,810
Barrow County	83,240	98.6%	100.0%	98.6%	519.2	$23,638
Bartow County	107,736	94.3%	100.0%	94.3%	234.4	$25,712
Ben Hill County	16,700	92.5%	100.0%	92.5%	66.8	$17,563
Berrien County	19,396	85.9%	100.0%	85.9%	42.9	$18,611
Bibb County	153,159	97.3%	100.0%	97.3%	613.2	$24,409
Bleckley County	12,873	53.8%	100.0%	53.8%	59.6	$18,519
Brantley County	19,105	99.4%	100.0%	99.4%	43.2	$18,904
Brooks County	15,457	83.5%	100.0%	83.5%	31.4	$23,421
Bryan County	39,626	95.1%	100.0%	95.1%	90.9	$30,892
Bulloch County	79,608	100.0%	100.0%	100.0%	118.3	$21,207
Burke County	22,383	72.2%	100.0%	72.2%	27.1	$21,334
Butts County	24,936	79.6%	100.0%	79.6%	135.2	$22,360
Calhoun County	6,189	24.9%	100.0%	24.9%	22.1	$13,927
Camden County	54,666	92.5%	100.0%	92.5%	89.2	$28,509
Candler County	10,803	100.0%	100.0%	100.0%	44.4	$18,718
Carroll County	119,989	92.7%	100.0%	92.7%	240.4	$24,155
Catoosa County	67,580	99.0%	100.0%	99.0%	416.8	$26,915
Charlton County	13,391	72.6%	100.0%	72.6%	17.3	$19,341

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Chatham County	289,430	98.4%	100.0%	98.4%	678.7	$30,664
Chattahoochee County	10,907	54.6%	100.0%	54.6%	43.8	$23,651
Chattooga County	24,789	97.8%	100.0%	97.8%	79.1	$18,209
Cherokee County	258,771	97.4%	100.0%	97.4%	613.7	$35,199
Clarke County	128,329	99.4%	100.0%	99.4%	1,076.6	$22,589
Clay County	2,834	65.2%	99.7%	65.2%	14.5	$16,199
Clayton County	289,598	98.2%	100.0%	98.2%	2,045.6	$20,419
Clinch County	6,618	70.7%	100.0%	70.7%	8.3	$16,538
Cobb County	760,139	98.0%	100.0%	98.0%	2,238.7	$38,268
Coffee County	43,271	91.9%	100.0%	91.9%	75.2	$19,709
Colquitt County	45,600	89.6%	100.0%	89.6%	83.8	$19,173
Columbia County	156,709	98.3%	100.0%	98.3%	540.2	$32,509
Cook County	17,270	84.7%	100.0%	84.7%	76.0	$19,778
Coweta County	148,509	95.9%	100.0%	95.9%	336.8	$32,542
Crawford County	12,404	93.5%	100.0%	93.5%	38.2	$21,102
Crisp County	22,372	80.4%	100.0%	80.4%	82.1	$21,581
Dade County	16,116	92.9%	100.0%	92.9%	92.6	$24,028
Dawson County	26,108	91.1%	100.0%	91.1%	123.8	$32,646
DeKalb County	759,279	98.7%	100.0%	98.7%	2,837.6	$34,100
Decatur County	26,404	66.3%	100.0%	66.3%	44.2	$20,397
Dodge County	20,605	67.5%	100.0%	67.5%	41.6	$18,921
Dooly County	13,390	55.2%	100.0%	55.2%	34.2	$20,259
Dougherty County	87,956	97.4%	100.0%	97.4%	267.6	$21,180
Douglas County	146,338	97.6%	100.0%	97.6%	731.4	$26,621
Early County	10,190	53.8%	100.0%	53.8%	19.9	$17,598
Echols County	4,006	0.0%	100.0%	0.0%	9.7	$22,883
Effingham County	64,296	96.8%	100.0%	96.8%	134.6	$29,795
Elbert County	19,194	85.0%	99.9%	85.0%	54.7	$22,593
Emanuel County	22,646	94.7%	100.0%	94.7%	33.3	$17,981
Evans County	10,654	82.3%	100.0%	82.3%	58.3	$20,537
Fannin County	26,188	92.0%	99.5%	91.7%	67.7	$26,665
Fayette County	114,420	98.1%	100.0%	98.1%	588.8	$42,126
Floyd County	98,498	94.3%	100.0%	94.3%	193.2	$25,058

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Forsyth County	244,215	99.1%	100.0%	99.1%	1,090.1	$41,585
Franklin County	23,347	84.8%	100.0%	84.8%	89.3	$21,686
Fulton County	1,063,887	98.4%	100.0%	98.4%	2,020.2	$43,707
Gilmer County	31,367	82.0%	100.0%	82.0%	73.5	$25,812
Glascock County	2,971	1.0%	100.0%	1.0%	20.7	$21,076
Glynn County	85,292	96.7%	99.9%	96.6%	203.2	$31,493
Gordon County	57,962	92.3%	100.0%	92.3%	162.9	$22,448
Grady County	24,633	83.9%	100.0%	83.9%	54.2	$22,442
Greene County	17,698	71.0%	100.0%	71.0%	45.7	$35,844
Gwinnett County	936,246	99.0%	100.0%	99.0%	2,175.4	$29,474
Habersham County	45,328	95.9%	100.0%	95.9%	163.8	$22,018
Hall County	204,435	97.9%	100.0%	97.9%	520.5	$27,625
Hancock County	8,457	12.7%	100.0%	12.7%	17.9	$16,713
Haralson County	29,792	100.0%	100.0%	100.0%	105.6	$24,444
Harris County	35,233	86.7%	100.0%	86.7%	76.0	$34,511
Hart County	26,205	97.0%	100.0%	97.0%	112.8	$22,361
Heard County	11,923	59.8%	100.0%	59.8%	40.3	$21,796
Henry County	234,551	99.5%	100.0%	99.5%	728.1	$28,274
Houston County	157,853	94.0%	100.0%	94.0%	420.3	$28,196
Irwin County	9,415	61.3%	100.0%	61.3%	26.6	$18,406
Jackson County	72,966	94.0%	100.0%	94.0%	214.8	$27,115
Jasper County	14,219	60.9%	100.0%	60.9%	38.6	$19,999
Jeff Davis County	15,115	62.4%	100.0%	62.4%	45.7	$18,042
Jefferson County	15,362	8.8%	100.0%	8.8%	29.2	$18,764
Jenkins County	8,676	82.3%	100.0%	82.3%	25.0	$16,089
Johnson County	9,643	30.3%	100.0%	30.3%	31.8	$20,773
Jones County	28,734	86.8%	100.0%	86.8%	72.9	$25,725
Lamar County	19,077	72.6%	100.0%	72.6%	104.0	$20,874
Lanier County	10,422	85.4%	100.0%	85.4%	56.3	$18,800
Laurens County	47,546	71.2%	100.0%	71.2%	58.9	$20,655
Lee County	29,991	89.1%	100.0%	89.1%	84.3	$28,612
Liberty County	61,435	93.9%	100.0%	93.9%	125.4	$21,430
Lincoln County	7,921	100.0%	99.1%	99.1%	37.7	$26,324
Long County	19,548	84.4%	100.0%	84.4%	48.8	$21,695

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Lowndes County	117,405	81.7%	100.0%	81.7%	236.7	$23,077
Lumpkin County	33,608	89.1%	100.0%	89.1%	118.8	$24,790
Macon County	12,947	75.1%	100.0%	75.1%	32.3	$15,924
Madison County	29,879	91.7%	100.0%	91.7%	105.8	$24,292
Marion County	8,359	71.5%	100.0%	71.5%	22.8	$22,478
McDuffie County	21,312	82.0%	100.0%	82.0%	82.8	$21,384
McIntosh County	14,378	97.0%	100.0%	97.0%	33.9	$27,030
Meriwether County	21,165	53.3%	100.0%	53.3%	42.2	$20,060
Miller County	5,716	10.7%	100.0%	10.7%	20.2	$21,746
Mitchell County	21,863	59.0%	100.0%	59.0%	42.7	$17,514
Monroe County	27,578	52.6%	100.0%	52.6%	69.7	$34,669
Montgomery County	9,172	50.1%	100.0%	50.1%	38.3	$22,317
Morgan County	19,275	46.7%	100.0%	46.7%	55.5	$30,587
Murray County	40,095	98.6%	99.9%	98.5%	116.4	$20,618
Muscogee County	195,769	99.0%	100.0%	99.0%	904.7	$25,318
Newton County	111,741	97.0%	100.0%	97.0%	410.6	$24,426
Oconee County	40,278	91.5%	100.0%	91.5%	218.6	$41,671
Oglethorpe County	15,259	80.2%	100.0%	80.2%	34.8	$23,027
Paulding County	168,655	98.7%	100.0%	98.7%	540.2	$27,855
Peach County	27,540	67.8%	100.0%	67.8%	183.3	$22,767
Pickens County	32,591	93.4%	100.0%	93.4%	140.4	$30,567
Pierce County	19,465	81.1%	100.0%	81.1%	61.5	$22,236
Pike County	18,962	44.3%	100.0%	44.3%	87.8	$26,737
Polk County	42,613	96.8%	100.0%	96.8%	137.3	$23,233
Pulaski County	11,136	71.1%	100.0%	71.1%	44.7	$19,389
Putnam County	22,118	88.7%	100.0%	88.7%	64.2	$28,819
Quitman County	2,298	63.3%	100.0%	63.3%	15.2	$19,371
Rabun County	17,137	90.8%	100.0%	90.8%	46.3	$28,312
Randolph County	6,778	79.0%	100.0%	79.0%	15.8	$19,356
Richmond County	202,517	95.9%	100.0%	95.9%	624.4	$22,045
Rockdale County	90,890	98.5%	100.0%	98.5%	700.3	$26,367
Schley County	5,257	76.8%	100.0%	76.8%	31.5	$20,585
Screven County	13,966	99.6%	100.0%	99.6%	21.6	$21,557
Seminole County	8,090	78.1%	100.0%	78.1%	34.4	$26,358

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Spalding County	66,697	95.4%	100.0%	95.4%	339.5	$22,166
Stephens County	25,925	94.7%	100.0%	94.7%	144.7	$21,839
Stewart County	6,620	0.8%	100.0%	0.8%	14.4	$16,359
Sumter County	29,524	72.8%	100.0%	72.8%	61.2	$20,191
Talbot County	6,195	79.8%	100.0%	79.8%	15.8	$20,785
Taliaferro County	1,537	91.0%	100.0%	91.0%	7.9	$19,897
Tattnall County	25,286	77.9%	100.0%	77.9%	52.7	$17,553
Taylor County	8,020	83.0%	100.0%	83.0%	21.3	$19,068
Telfair County	15,860	80.5%	100.0%	80.5%	36.3	$15,200
Terrell County	8,531	78.1%	100.0%	78.1%	25.4	$19,330
Thomas County	44,451	88.3%	100.0%	88.3%	81.6	$25,542
Tift County	40,644	87.0%	100.0%	87.0%	157.0	$22,072
Toombs County	26,830	77.4%	100.0%	77.4%	73.7	$23,416
Towns County	12,037	97.8%	99.5%	97.3%	72.3	$23,940
Treutlen County	6,901	12.8%	100.0%	12.8%	34.6	$23,907
Troup County	69,922	94.5%	100.0%	94.5%	168.9	$22,348
Turner County	7,985	72.8%	100.0%	72.8%	28.0	$18,787
Twiggs County	8,120	45.0%	100.0%	45.0%	22.7	$19,465
Union County	24,511	96.1%	100.0%	96.0%	76.1	$27,282
Upson County	26,320	94.0%	100.0%	94.0%	81.4	$21,015
Walker County	69,761	96.7%	99.9%	96.6%	156.3	$23,311
Walton County	94,593	92.5%	100.0%	92.5%	290.4	$26,545
Ware County	35,734	86.5%	100.0%	86.5%	40.0	$20,457
Warren County	5,254	0.2%	100.0%	0.2%	18.5	$22,916
Washington County	20,374	67.2%	100.0%	67.2%	30.0	$19,579
Wayne County	29,927	81.8%	100.0%	81.8%	46.6	$21,067
Webster County	2,607	46.1%	100.0%	46.1%	12.5	$21,586
Wheeler County	7,855	55.8%	100.0%	55.8%	26.6	$12,292
White County	30,797	94.0%	100.0%	94.0%	128.0	$25,617
Whitfield County	104,627	100.0%	100.0%	100.0%	360.2	$23,271
Wilcox County	8,635	67.0%	100.0%	67.0%	22.9	$14,829
Wilkes County	9,777	100.0%	100.0%	100.0%	20.8	$23,198
Wilkinson County	8,954	70.2%	100.0%	70.2%	20.0	$21,403
Worth County	20,247	65.7%	100.0%	65.7%	35.5	$23,517

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Hawaii	**1,415,872**	**97.9%**	**99.9%**	**97.8%**	**220.5**	**$35,255**
Hawaii County	201,513	93.4%	99.9%	93.3%	50.0	$29,253
Honolulu County	974,563	99.3%	99.9%	99.2%	1,622.3	$35,202
Kalawao County	86	19.8%	100.0%	19.8%	7.2	$47,709
Kauai County	72,293	95.0%	99.5%	95.0%	116.6	$31,674
Maui County	167,417	96.2%	99.8%	96.0%	144.1	$33,792
Idaho	**1,786,887**	**95.3%**	**99.4%**	**95.1%**	**21.6**	**$27,816**
Ada County	481,540	99.1%	100.0%	99.1%	457.5	$33,352
Adams County	4,294	55.7%	96.9%	54.4%	3.2	$25,143
Bannock County	87,804	95.0%	99.9%	94.9%	79.0	$24,555
Bear Lake County	6,122	73.9%	97.4%	73.6%	6.3	$24,654
Benewah County	9,298	76.1%	84.1%	75.4%	12.0	$23,502
Bingham County	46,804	98.5%	99.9%	98.5%	22.4	$21,322
Blaine County	23,021	92.0%	98.0%	90.4%	8.7	$32,861
Boise County	7,831	66.1%	85.4%	59.9%	4.1	$30,660
Bonner County	45,736	99.7%	99.3%	99.1%	26.4	$27,590
Bonneville County	119,044	98.0%	99.6%	97.7%	63.8	$27,272
Boundary County	12,245	98.2%	93.8%	92.7%	9.7	$25,401
Butte County	2,597	64.5%	98.4%	64.2%	1.2	$25,941
Camas County	1,106	97.5%	100.0%	97.5%	1.0	$30,803
Canyon County	229,789	99.9%	100.0%	99.9%	391.2	$20,807
Caribou County	7,154	80.6%	99.1%	80.5%	4.1	$26,908
Cassia County	24,030	97.5%	99.9%	97.5%	9.4	$21,547
Clark County	845	92.8%	99.2%	92.8%	0.5	$16,181
Clearwater County	8,756	50.8%	86.9%	49.5%	3.6	$22,844
Custer County	4,314	81.1%	86.2%	71.2%	0.9	$24,545
Elmore County	27,510	77.0%	99.7%	77.0%	8.9	$23,547
Franklin County	13,875	94.5%	98.9%	93.9%	20.9	$22,367
Fremont County	13,099	95.4%	100.0%	95.4%	7.0	$21,782
Gem County	18,111	97.4%	100.0%	97.4%	32.3	$20,776
Gooding County	15,179	98.3%	100.0%	98.3%	20.8	$22,542
Idaho County	16,667	72.6%	92.1%	72.0%	2.0	$21,584
Jefferson County	29,861	93.0%	100.0%	93.0%	27.3	$22,934
Jerome County	24,411	99.6%	100.0%	99.6%	40.9	$20,820

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Kootenai County	165,689	98.8%	99.7%	98.7%	133.2	$29,429
Latah County	40,108	80.6%	98.9%	79.9%	37.3	$25,623
Lemhi County	8,027	56.3%	94.7%	56.2%	1.8	$23,042
Lewis County	3,838	29.5%	99.7%	29.5%	8.0	$24,052
Lincoln County	5,366	90.8%	100.0%	90.8%	4.5	$20,188
Madison County	39,905	99.0%	100.0%	99.0%	85.0	$15,626
Minidoka County	21,038	99.8%	100.0%	99.8%	27.8	$23,578
Nez Perce County	40,408	86.7%	99.1%	86.5%	47.6	$27,753
Oneida County	4,531	84.1%	99.6%	83.8%	3.8	$21,575
Owyhee County	11,823	80.1%	99.4%	80.1%	1.5	$21,935
Payette County	23,947	95.1%	100.0%	95.1%	58.9	$25,002
Power County	7,681	92.9%	99.9%	92.9%	5.5	$22,199
Shoshone County	12,882	71.4%	94.9%	71.2%	4.9	$24,204
Teton County	12,141	91.4%	100.0%	91.4%	27.0	$30,554
Twin Falls County	86,877	98.4%	100.0%	98.4%	45.2	$24,222
Valley County	11,389	72.1%	99.3%	72.1%	3.1	$30,838
Washington County	10,194	89.1%	99.9%	89.0%	7.0	$21,414
Illinois	**12,671,797**	**98.0%**	**100.0%**	**98.0%**	**228.2**	**$35,801**
Adams County	65,435	90.1%	100.0%	90.1%	76.5	$29,347
Alexander County	5,761	0.1%	99.8%	0.1%	24.5	$19,065
Bond County	16,426	100.0%	100.0%	100.0%	43.2	$26,356
Boone County	53,544	97.1%	100.0%	97.1%	190.7	$30,725
Brown County	6,578	79.9%	100.0%	79.9%	21.5	$22,279
Bureau County	32,628	100.0%	100.0%	100.0%	37.5	$29,126
Calhoun County	4,739	73.4%	100.0%	73.4%	18.7	$27,314
Carroll County	14,305	91.7%	100.0%	91.7%	32.2	$28,053
Cass County	12,147	93.3%	100.0%	93.3%	32.3	$26,245
Champaign County	209,689	96.8%	100.0%	96.8%	210.5	$29,683
Christian County	32,304	100.0%	100.0%	100.0%	45.5	$26,166
Clark County	15,441	80.7%	100.0%	80.7%	30.8	$29,887
Clay County	13,184	86.1%	100.0%	86.1%	28.2	$25,821
Clinton County	37,562	100.0%	100.0%	100.0%	79.2	$31,240
Coles County	50,621	89.9%	100.0%	89.9%	99.6	$26,790
Cook County	5,150,233	99.2%	100.0%	99.2%	5,448.1	$35,575

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Crawford County	18,667	79.2%	100.0%	79.2%	42.1	$26,713
Cumberland County	10,766	56.1%	100.0%	56.1%	31.1	$25,622
De Witt County	15,638	87.9%	100.0%	87.9%	39.3	$29,402
DeKalb County	104,887	96.5%	100.0%	96.5%	166.1	$28,073
Douglas County	19,465	82.6%	100.0%	82.6%	46.7	$27,871
DuPage County	922,921	99.3%	100.0%	99.3%	2,818.1	$43,982
Edgar County	17,161	92.2%	100.0%	92.2%	27.5	$27,701
Edwards County	6,395	78.0%	100.0%	78.0%	28.8	$26,908
Effingham County	34,008	95.3%	100.0%	95.3%	71.0	$30,255
Fayette County	21,336	55.7%	100.0%	55.7%	29.8	$22,260
Ford County	12,961	89.8%	100.0%	89.8%	26.7	$28,002
Franklin County	38,469	98.2%	100.0%	98.2%	94.1	$23,510
Fulton County	34,340	80.7%	100.0%	80.7%	39.7	$25,538
Gallatin County	4,828	91.9%	100.0%	91.9%	14.9	$25,572
Greene County	12,969	90.9%	100.0%	90.9%	23.9	$23,946
Grundy County	51,052	100.0%	100.0%	100.0%	122.1	$33,308
Hamilton County	8,116	75.5%	100.0%	75.5%	18.7	$27,795
Hancock County	17,708	80.8%	100.0%	80.8%	22.3	$26,880
Hardin County	3,821	100.0%	100.0%	100.0%	21.5	$25,795
Henderson County	6,646	100.0%	99.7%	99.7%	17.5	$28,401
Henry County	48,913	100.0%	100.0%	100.0%	59.4	$29,014
Iroquois County	27,114	78.7%	100.0%	78.7%	24.3	$26,976
Jackson County	56,750	100.0%	100.0%	100.0%	97.2	$24,521
Jasper County	9,610	50.1%	100.0%	50.1%	19.4	$25,536
Jefferson County	37,684	99.4%	100.0%	99.4%	66.0	$25,770
Jersey County	21,773	98.5%	99.9%	98.4%	59.0	$28,924
Jo Daviess County	21,235	88.4%	100.0%	88.4%	35.3	$32,710
Johnson County	12,417	55.1%	100.0%	55.1%	36.1	$22,469
Kane County	532,403	99.1%	100.0%	99.1%	1,023.7	$34,924
Kankakee County	109,862	97.8%	100.0%	97.8%	162.4	$27,164
Kendall County	128,981	98.8%	100.0%	98.8%	402.6	$34,423
Knox County	49,699	100.0%	100.0%	100.0%	69.4	$24,681
LaSalle County	108,669	100.0%	100.0%	100.0%	95.7	$29,093
Lake County	696,535	99.1%	100.0%	99.1%	1,569.9	$44,287

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Lawrence County	15,678	77.7%	100.0%	77.7%	42.1	$22,099
Lee County	34,096	100.0%	100.0%	100.0%	47.0	$29,249
Livingston County	35,648	100.0%	100.0%	100.0%	34.1	$28,236
Logan County	28,618	93.5%	100.0%	93.5%	46.3	$27,187
Macon County	104,009	99.4%	100.0%	99.4%	179.1	$28,925
Macoupin County	44,926	83.9%	100.0%	83.9%	52.1	$28,050
Madison County	262,966	99.9%	100.0%	99.9%	367.5	$30,802
Marion County	37,205	92.3%	100.0%	92.3%	65.0	$24,727
Marshall County	11,438	100.0%	100.0%	100.0%	29.6	$29,827
Mason County	13,359	79.5%	100.0%	79.5%	24.8	$27,111
Massac County	13,772	73.4%	100.0%	73.4%	58.1	$23,768
McDonough County	29,682	98.8%	100.0%	98.8%	50.4	$23,299
McHenry County	307,774	99.7%	100.0%	99.7%	510.3	$38,047
McLean County	171,517	97.6%	100.0%	97.6%	144.9	$33,665
Menard County	12,196	96.2%	100.0%	96.2%	38.8	$34,495
Mercer County	15,437	100.0%	100.0%	100.0%	27.5	$28,995
Monroe County	34,635	98.4%	99.8%	98.3%	90.0	$39,988
Montgomery County	28,414	86.7%	100.0%	86.7%	40.4	$24,816
Morgan County	33,658	89.7%	100.0%	89.7%	59.2	$26,295
Moultrie County	14,501	95.4%	100.0%	95.4%	43.2	$28,391
Ogle County	50,643	95.9%	100.0%	95.9%	66.8	$30,595
Peoria County	179,179	100.0%	100.0%	100.0%	289.4	$30,753
Perry County	20,916	95.9%	100.0%	95.9%	47.3	$24,511
Piatt County	16,344	96.1%	100.0%	96.1%	37.2	$33,967
Pike County	15,561	87.5%	100.0%	87.5%	18.7	$24,162
Pope County	4,177	83.9%	99.8%	83.7%	11.3	$22,343
Pulaski County	5,335	44.9%	100.0%	44.9%	26.8	$20,317
Putnam County	5,739	100.0%	100.0%	100.0%	35.8	$34,144
Randolph County	31,782	96.1%	100.0%	96.1%	55.2	$25,340
Richland County	15,513	75.3%	100.0%	75.3%	43.1	$26,038
Rock Island County	141,879	100.0%	100.0%	100.0%	331.8	$28,595
Saline County	23,491	83.4%	100.0%	83.4%	61.8	$23,690
Sangamon County	194,672	98.4%	100.0%	98.4%	224.2	$34,548
Schuyler County	6,768	61.6%	100.0%	61.6%	15.5	$23,068

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Scott County	4,950	93.1%	100.0%	93.1%	19.7	$27,218
Shelby County	21,634	89.7%	100.0%	89.7%	28.5	$25,320
St. Clair County	259,686	100.0%	100.0%	100.0%	394.8	$29,541
Stark County	5,342	100.0%	100.0%	100.0%	18.5	$30,225
Stephenson County	44,498	97.5%	100.0%	97.5%	78.8	$27,453
Tazewell County	131,803	97.6%	100.0%	97.6%	203.1	$33,077
Union County	16,653	80.3%	100.0%	80.3%	40.3	$25,416
Vermilion County	75,758	94.6%	100.0%	94.6%	84.3	$24,272
Wabash County	11,520	87.5%	100.0%	87.5%	51.6	$26,850
Warren County	16,844	100.0%	100.0%	100.0%	31.1	$26,082
Washington County	13,887	88.3%	100.0%	88.3%	24.7	$32,394
Wayne County	16,215	93.1%	100.0%	93.1%	22.7	$26,362
White County	13,537	81.4%	100.0%	81.4%	27.4	$25,859
Whiteside County	55,175	100.0%	100.0%	100.0%	80.6	$29,167
Will County	690,743	99.4%	100.0%	99.4%	825.4	$35,259
Williamson County	66,597	92.4%	100.0%	92.4%	158.5	$26,756
Winnebago County	282,572	98.3%	100.0%	98.3%	550.4	$28,250
Woodford County	38,459	100.0%	100.0%	100.0%	72.9	$35,104
Indiana	**6,731,887**	**96.1%**	**100.0%**	**96.1%**	**187.9**	**$29,369**
Adams County	35,775	100.0%	100.0%	100.0%	105.5	$22,514
Allen County	379,242	99.1%	100.0%	99.1%	577.0	$28,239
Bartholomew County	83,772	93.7%	100.0%	93.7%	205.9	$30,515
Benton County	8,745	92.4%	100.0%	92.4%	21.5	$23,322
Blackford County	11,758	100.0%	100.0%	100.0%	71.2	$24,663
Boone County	67,843	93.9%	100.0%	93.9%	160.4	$44,712
Brown County	15,092	91.0%	100.0%	91.0%	48.4	$33,617
Carroll County	20,256	63.2%	100.0%	63.2%	54.4	$28,430
Cass County	37,689	93.8%	100.0%	93.8%	91.4	$23,918
Clark County	118,294	96.5%	100.0%	96.5%	317.3	$28,525
Clay County	26,223	94.6%	100.0%	94.6%	73.3	$25,290
Clinton County	32,394	91.8%	100.0%	91.8%	80.0	$24,276
Crawford County	10,577	34.5%	99.5%	34.5%	34.6	$21,021
Daviess County	33,350	99.6%	100.0%	99.6%	77.7	$22,548
DeKalb County	43,470	98.3%	100.0%	98.3%	119.8	$27,036

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Dearborn County	49,458	96.0%	100.0%	96.0%	162.1	$29,891
Decatur County	26,559	75.6%	100.0%	75.6%	71.3	$26,515
Delaware County	114,135	100.0%	100.0%	100.0%	291.1	$24,234
Dubois County	42,733	79.3%	100.0%	79.3%	100.0	$28,932
Elkhart County	206,336	97.7%	100.0%	97.7%	445.5	$25,075
Fayette County	23,102	100.0%	100.0%	100.0%	107.4	$23,627
Floyd County	78,517	99.2%	100.0%	99.2%	530.8	$32,299
Fountain County	16,346	89.3%	100.0%	89.3%	41.3	$26,721
Franklin County	22,758	70.3%	100.0%	70.3%	59.2	$27,557
Fulton County	19,974	100.0%	100.0%	100.0%	54.2	$25,106
Gibson County	33,659	87.3%	100.0%	87.3%	69.0	$27,137
Grant County	65,769	94.2%	100.0%	94.2%	158.8	$21,739
Greene County	31,922	86.5%	100.0%	86.5%	58.8	$24,309
Hamilton County	337,950	99.8%	100.0%	99.8%	857.2	$46,597
Hancock County	78,151	99.0%	100.0%	99.0%	255.4	$32,730
Harrison County	40,515	96.9%	100.0%	96.8%	83.6	$27,211
Hendricks County	170,271	97.2%	100.0%	97.2%	418.4	$34,689
Henry County	47,972	98.3%	100.0%	98.3%	122.4	$23,851
Howard County	82,542	96.3%	100.0%	96.3%	281.7	$27,297
Huntington County	36,519	99.9%	100.0%	99.9%	95.4	$25,386
Jackson County	44,231	98.8%	100.0%	98.8%	86.8	$24,522
Jasper County	33,560	85.6%	100.0%	85.6%	60.0	$26,415
Jay County	20,436	95.0%	100.0%	95.0%	53.2	$22,470
Jefferson County	32,307	86.4%	100.0%	86.4%	89.6	$26,060
Jennings County	27,733	82.0%	100.0%	82.0%	73.6	$23,490
Johnson County	158,156	96.5%	100.0%	96.5%	493.6	$32,475
Knox County	36,594	100.0%	100.0%	100.0%	70.9	$24,581
Kosciusko County	79,454	99.5%	100.0%	99.5%	149.5	$28,740
LaGrange County	39,604	68.5%	100.0%	68.5%	104.3	$23,626
LaPorte County	109,888	99.5%	100.0%	99.5%	183.7	$25,865
Lake County	485,489	99.8%	100.0%	99.8%	973.0	$27,660
Lawrence County	45,370	85.6%	100.0%	85.6%	101.0	$25,590
Madison County	129,569	100.0%	100.0%	100.0%	286.7	$24,625
Marion County	964,542	99.9%	100.0%	99.9%	2,433.9	$27,251

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Marshall County	46,258	100.0%	100.0%	100.0%	104.3	$25,537
Martin County	10,255	86.2%	100.0%	86.2%	30.5	$25,676
Miami County	35,516	95.2%	100.0%	95.2%	95.0	$22,871
Monroe County	148,426	94.3%	100.0%	94.3%	376.2	$27,461
Montgomery County	38,338	79.4%	100.0%	79.4%	76.0	$26,184
Morgan County	70,487	94.8%	100.0%	94.8%	174.5	$28,633
Newton County	13,984	97.2%	100.0%	97.2%	34.8	$25,366
Noble County	47,742	89.4%	100.0%	89.4%	116.2	$26,063
Ohio County	5,875	79.7%	99.8%	79.6%	68.2	$29,368
Orange County	19,646	91.1%	100.0%	91.1%	49.3	$23,317
Owen County	20,799	81.8%	100.0%	81.8%	54.0	$24,129
Parke County	16,936	74.2%	100.0%	74.2%	38.1	$23,052
Perry County	19,169	83.7%	99.9%	83.6%	50.2	$24,540
Pike County	12,389	94.7%	100.0%	94.7%	37.1	$26,584
Porter County	170,387	100.0%	100.0%	100.0%	407.5	$32,943
Posey County	25,427	73.3%	100.0%	73.3%	62.1	$30,572
Pulaski County	12,353	70.2%	100.0%	70.2%	28.5	$24,695
Putnam County	37,576	76.5%	100.0%	76.5%	78.2	$24,627
Randolph County	24,665	99.9%	100.0%	99.9%	54.5	$23,539
Ripley County	28,324	66.3%	100.0%	66.3%	63.4	$27,423
Rush County	16,581	99.4%	100.0%	99.4%	40.6	$24,900
Scott County	23,873	100.0%	100.0%	100.0%	125.4	$22,688
Shelby County	44,728	81.6%	100.0%	81.6%	108.8	$28,491
Spencer County	20,277	74.8%	100.0%	74.8%	51.1	$29,999
St. Joseph County	271,824	99.4%	100.0%	99.4%	593.7	$27,338
Starke County	22,994	93.6%	100.0%	93.6%	74.4	$23,282
Steuben County	34,594	95.1%	100.0%	95.1%	112.0	$28,429
Sullivan County	20,669	94.3%	100.0%	94.3%	46.2	$22,976
Switzerland County	10,751	26.6%	100.0%	26.6%	48.7	$23,347
Tippecanoe County	195,719	96.9%	100.0%	96.9%	391.6	$26,262
Tipton County	15,148	100.0%	100.0%	100.0%	58.1	$30,026
Union County	7,054	99.9%	100.0%	99.9%	43.8	$24,040
Vanderburgh County	181,449	98.9%	100.0%	98.9%	777.2	$28,320

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Vermillion County	15,498	96.6%	100.0%	96.6%	60.3	$25,143
Vigo County	107,038	97.1%	100.0%	97.1%	265.4	$24,254
Wabash County	30,996	99.9%	100.0%	99.9%	75.2	$25,228
Warren County	8,265	88.6%	100.0%	88.6%	22.7	$29,408
Warrick County	62,998	89.8%	100.0%	89.8%	163.7	$35,915
Washington County	28,035	99.8%	100.0%	99.8%	54.6	$24,048
Wayne County	65,884	100.0%	100.0%	100.0%	164.0	$25,460
Wells County	28,293	94.1%	100.0%	94.1%	76.9	$27,106
White County	24,102	91.5%	100.0%	91.5%	47.7	$27,621
Whitley County	33,964	100.0%	100.0%	100.0%	101.2	$30,144
Iowa	**3,155,004**	**96.0%**	**99.9%**	**95.9%**	**56.5**	**$31,559**
Adair County	7,150	90.7%	100.0%	90.7%	12.6	$29,984
Adams County	3,602	66.6%	100.0%	66.6%	8.5	$27,824
Allamakee County	13,687	84.8%	97.6%	83.2%	21.4	$27,741
Appanoose County	12,426	98.3%	99.2%	97.9%	25.0	$27,546
Audubon County	5,496	92.8%	100.0%	92.8%	12.4	$28,957
Benton County	25,645	94.8%	100.0%	94.8%	35.8	$32,764
Black Hawk County	131,228	99.9%	100.0%	99.9%	231.9	$29,100
Boone County	26,234	98.7%	100.0%	98.7%	45.9	$31,686
Bremer County	25,057	99.7%	100.0%	99.7%	57.5	$32,512
Buchanan County	21,175	94.3%	100.0%	94.3%	37.1	$31,495
Buena Vista County	19,620	99.3%	100.0%	99.3%	34.1	$26,607
Butler County	14,439	98.6%	100.0%	98.6%	24.9	$29,654
Calhoun County	9,668	83.9%	100.0%	83.9%	17.0	$27,908
Carroll County	20,165	93.8%	100.0%	93.8%	35.4	$30,658
Cass County	12,836	99.3%	100.0%	99.3%	22.7	$27,853
Cedar County	18,627	89.3%	100.0%	89.3%	32.1	$32,010
Cerro Gordo County	42,450	100.0%	100.0%	100.0%	74.7	$31,304
Cherokee County	11,235	95.3%	100.0%	95.3%	19.5	$32,667
Chickasaw County	11,933	97.9%	100.0%	97.9%	23.7	$29,752
Clarke County	9,395	88.4%	99.9%	88.3%	21.8	$26,706
Clay County	16,016	98.8%	100.0%	98.8%	28.2	$27,811
Clayton County	17,549	78.1%	97.2%	77.1%	22.5	$28,486
Clinton County	46,429	96.5%	100.0%	96.5%	66.8	$27,942

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Crawford County	16,820	88.7%	100.0%	88.7%	23.6	$28,700
Dallas County	93,425	97.9%	100.0%	97.9%	158.8	$43,583
Davis County	9,000	84.5%	98.9%	83.4%	17.9	$26,503
Decatur County	7,870	94.5%	100.0%	94.5%	14.8	$22,037
Delaware County	17,011	97.8%	99.6%	97.4%	29.4	$31,300
Des Moines County	38,967	94.8%	100.0%	94.8%	93.6	$28,234
Dickinson County	17,257	99.3%	100.0%	99.3%	45.3	$38,031
Dubuque County	97,310	98.9%	100.0%	98.9%	160.0	$31,096
Emmet County	9,208	99.3%	100.0%	99.3%	23.3	$30,386
Fayette County	19,650	92.3%	99.7%	91.9%	26.9	$28,069
Floyd County	15,642	99.2%	100.0%	99.2%	31.2	$27,897
Franklin County	10,070	98.9%	100.0%	98.9%	17.3	$27,480
Fremont County	6,960	97.9%	100.0%	97.9%	13.6	$29,625
Greene County	8,888	98.4%	100.0%	98.4%	15.6	$28,413
Grundy County	12,232	99.9%	100.0%	99.9%	24.4	$35,443
Guthrie County	10,689	93.5%	100.0%	93.5%	18.1	$28,953
Hamilton County	14,773	97.8%	100.0%	97.8%	25.6	$28,706
Hancock County	10,630	97.7%	100.0%	97.7%	18.6	$29,537
Hardin County	16,846	96.2%	100.0%	96.2%	29.6	$28,539
Harrison County	14,049	100.0%	100.0%	100.0%	20.2	$30,209
Henry County	19,954	89.3%	99.8%	89.2%	45.9	$26,760
Howard County	9,158	97.9%	99.9%	97.9%	19.4	$28,828
Humboldt County	9,558	85.2%	100.0%	85.2%	22.0	$29,882
Ida County	6,860	94.8%	100.0%	94.8%	15.9	$32,562
Iowa County	16,183	85.3%	100.0%	85.3%	27.6	$32,663
Jackson County	19,438	94.0%	100.0%	94.0%	30.6	$29,207
Jasper County	37,184	91.2%	100.0%	91.2%	50.9	$27,551
Jefferson County	18,295	100.0%	100.0%	99.9%	42.0	$26,064
Johnson County	151,140	94.0%	100.0%	94.0%	246.1	$34,310
Jones County	20,681	94.6%	99.9%	94.6%	35.9	$28,879
Keokuk County	10,245	85.0%	99.9%	84.9%	17.7	$28,630
Kossuth County	14,813	95.4%	100.0%	95.4%	15.2	$29,963
Lee County	33,657	94.1%	100.0%	94.1%	65.0	$25,968
Linn County	226,701	98.6%	100.0%	98.6%	316.2	$34,289

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Louisa County	11,035	77.5%	100.0%	77.5%	27.5	$27,041
Lucas County	8,600	95.2%	99.6%	95.0%	20.0	$28,900
Lyon County	11,755	96.8%	100.0%	96.8%	20.0	$29,246
Madison County	16,338	97.7%	100.0%	97.7%	29.1	$33,069
Mahaska County	22,093	97.4%	99.9%	97.3%	38.7	$27,061
Marion County	33,253	90.1%	99.6%	90.0%	60.0	$28,832
Marshall County	39,369	94.5%	100.0%	94.5%	68.8	$26,516
Mills County	15,108	100.0%	100.0%	100.0%	34.5	$32,867
Mitchell County	10,584	99.2%	100.0%	99.2%	22.6	$28,898
Monona County	8,615	99.7%	100.0%	99.7%	12.4	$27,862
Monroe County	7,707	93.4%	99.1%	92.6%	17.8	$26,469
Montgomery County	9,917	99.2%	100.0%	99.2%	23.4	$28,780
Muscatine County	42,664	92.3%	100.0%	92.3%	97.5	$28,137
O'Brien County	13,753	100.0%	100.0%	100.0%	24.0	$29,901
Osceola County	5,958	97.3%	100.0%	97.3%	14.9	$28,843
Page County	15,107	91.7%	100.0%	91.7%	28.2	$26,767
Palo Alto County	8,886	96.6%	100.0%	96.6%	15.8	$28,843
Plymouth County	25,176	97.7%	100.0%	97.7%	29.2	$32,028
Pocahontas County	6,619	86.2%	100.0%	86.2%	11.5	$27,984
Polk County	490,157	97.4%	100.0%	97.4%	854.2	$34,474
Pottawattamie County	93,206	100.0%	100.0%	100.0%	98.1	$29,729
Poweshiek County	18,504	78.9%	100.0%	78.9%	31.6	$30,711
Ringgold County	4,894	59.1%	100.0%	59.1%	9.1	$29,759
Sac County	9,721	89.8%	100.0%	89.8%	16.9	$30,750
Scott County	172,943	98.0%	100.0%	98.0%	377.5	$31,873
Shelby County	11,454	99.7%	100.0%	99.7%	19.4	$31,283
Sioux County	34,855	99.3%	100.0%	99.3%	45.4	$28,467
Story County	97,117	95.4%	100.0%	95.4%	169.5	$28,034
Tama County	16,854	87.4%	100.0%	87.4%	23.4	$27,255
Taylor County	6,121	69.8%	100.0%	69.8%	11.5	$27,672
Union County	12,241	93.4%	100.0%	93.4%	28.9	$26,216
Van Buren County	7,044	74.4%	98.8%	73.3%	14.5	$27,468
Wapello County	34,969	94.4%	100.0%	94.4%	81.0	$24,864

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Warren County	51,458	93.4%	99.9%	93.3%	90.3	$34,570
Washington County	21,965	90.1%	100.0%	90.1%	38.6	$29,857
Wayne County	6,440	100.0%	100.0%	100.0%	12.3	$25,560
Webster County	35,904	96.7%	100.0%	96.7%	50.2	$25,243
Winnebago County	10,354	100.0%	100.0%	100.0%	25.9	$27,117
Winneshiek County	19,991	89.9%	98.9%	89.2%	29.0	$30,706
Woodbury County	103,106	97.0%	100.0%	97.0%	118.1	$27,430
Worth County	7,381	99.9%	100.0%	99.9%	18.4	$29,482
Wright County	12,562	98.5%	100.0%	98.5%	21.6	$28,317
Kansas	**2,913,234**	**95.7%**	**100.0%**	**95.7%**	**35.6**	**$31,456**
Allen County	12,369	100.0%	100.0%	100.0%	24.7	$23,454
Anderson County	7,858	100.0%	100.0%	100.0%	13.6	$23,210
Atchison County	16,073	81.5%	100.0%	81.5%	37.3	$24,224
Barber County	4,427	87.6%	100.0%	87.6%	3.9	$28,984
Barton County	25,779	93.1%	100.0%	93.1%	28.8	$27,133
Bourbon County	14,534	99.2%	99.8%	99.0%	22.9	$22,822
Brown County	9,564	79.5%	100.0%	79.5%	16.8	$25,306
Butler County	66,909	94.5%	100.0%	94.5%	46.8	$28,759
Chase County	2,648	18.5%	100.0%	18.5%	3.4	$25,105
Chautauqua County	3,250	29.5%	100.0%	29.5%	5.1	$24,496
Cherokee County	19,939	98.6%	100.0%	98.6%	33.9	$21,635
Cheyenne County	2,657	52.0%	100.0%	52.0%	2.6	$28,467
Clark County	1,994	47.3%	100.0%	47.3%	2.0	$27,896
Clay County	8,002	99.0%	100.0%	99.0%	12.4	$32,110
Cloud County	8,786	99.2%	100.0%	99.2%	12.3	$26,515
Coffey County	8,179	100.0%	100.0%	100.0%	13.0	$32,112
Comanche County	1,700	75.4%	100.0%	75.4%	2.2	$30,171
Cowley County	34,908	95.4%	100.0%	95.4%	31.0	$23,778
Crawford County	38,818	95.9%	100.0%	95.9%	65.8	$22,461
Decatur County	2,827	73.3%	99.9%	73.3%	3.2	$30,208
Dickinson County	18,466	90.8%	100.0%	90.8%	21.8	$26,201
Doniphan County	7,600	81.7%	100.0%	81.7%	19.3	$25,297
Douglas County	122,244	100.0%	100.0%	100.0%	268.2	$30,315
Edwards County	2,798	69.3%	100.0%	69.3%	4.5	$27,309

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Elk County	2,530	88.7%	100.0%	88.6%	3.9	$22,437
Ellis County	28,553	99.7%	100.0%	99.7%	31.7	$29,810
Ellsworth County	6,102	88.8%	100.0%	88.8%	8.5	$25,161
Finney County	36,467	99.4%	100.0%	99.4%	28.0	$23,637
Ford County	33,619	83.2%	100.0%	83.2%	30.6	$23,348
Franklin County	25,544	100.0%	100.0%	100.0%	44.7	$26,757
Geary County	31,670	84.8%	100.0%	84.8%	82.3	$22,797
Gove County	2,636	71.5%	100.0%	71.5%	2.5	$28,247
Graham County	2,482	98.5%	100.0%	98.5%	2.8	$26,685
Grant County	7,150	100.0%	100.0%	100.0%	12.4	$25,788
Gray County	5,988	80.9%	100.0%	80.9%	6.9	$28,878
Greeley County	1,232	96.1%	100.0%	96.1%	1.6	$23,668
Greenwood County	5,982	38.7%	100.0%	38.7%	5.2	$27,639
Hamilton County	2,539	100.0%	100.0%	100.0%	2.5	$20,723
Harper County	5,436	99.2%	100.0%	99.2%	6.8	$26,105
Harvey County	34,425	100.0%	100.0%	100.0%	63.8	$27,305
Haskell County	3,968	98.4%	100.0%	98.4%	6.9	$25,417
Hodgeman County	1,794	62.4%	100.0%	62.4%	2.1	$28,514
Jackson County	13,171	92.8%	100.0%	92.8%	20.1	$27,950
Jefferson County	19,042	97.4%	100.0%	97.4%	35.8	$29,258
Jewell County	2,878	97.0%	100.0%	97.0%	3.2	$26,908
Johnson County	602,389	100.0%	100.0%	100.0%	1,272.5	$44,986
Kearny County	3,838	100.0%	100.0%	100.0%	4.4	$23,593
Kingman County	7,152	87.9%	100.0%	87.9%	8.3	$33,203
Kiowa County	2,475	79.0%	100.0%	79.0%	3.4	$25,623
Labette County	19,618	76.5%	100.0%	76.5%	30.4	$23,524
Lane County	1,535	98.0%	100.0%	98.0%	2.1	$28,366
Leavenworth County	81,756	96.4%	100.0%	96.4%	176.6	$31,639
Lincoln County	2,962	86.1%	100.0%	86.1%	4.1	$25,851
Linn County	9,703	100.0%	100.0%	100.0%	16.3	$25,771
Logan County	2,794	89.2%	100.0%	89.2%	2.6	$27,883
Lyon County	33,195	99.9%	100.0%	99.9%	39.2	$26,322
Marion County	11,884	90.8%	100.0%	90.8%	12.6	$25,756
Marshall County	9,707	97.6%	100.0%	97.6%	10.8	$27,167

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
McPherson County	28,542	83.0%	100.0%	83.0%	31.8	$30,234
Meade County	4,033	0.1%	100.0%	0.1%	4.1	$27,273
Miami County	34,236	100.0%	100.0%	100.0%	59.5	$33,349
Mitchell County	5,979	99.3%	100.0%	99.3%	8.5	$24,732
Montgomery County	31,829	96.2%	100.0%	96.2%	49.5	$24,103
Morris County	5,614	97.3%	100.0%	97.3%	8.1	$27,499
Morton County	2,587	100.0%	100.0%	100.0%	3.5	$23,370
Nemaha County	10,230	73.7%	100.0%	73.7%	14.3	$29,687
Neosho County	16,006	97.5%	100.0%	97.5%	28.0	$23,934
Ness County	2,750	88.8%	100.0%	88.8%	2.6	$31,912
Norton County	5,361	74.7%	100.0%	74.7%	6.1	$26,953
Osage County	15,949	100.0%	100.0%	100.0%	22.6	$27,026
Osborne County	3,421	98.0%	100.0%	98.0%	3.8	$28,748
Ottawa County	5,704	81.3%	100.0%	81.3%	7.9	$27,610
Pawnee County	6,414	90.1%	100.0%	90.1%	8.5	$22,925
Phillips County	5,234	75.7%	100.0%	75.7%	5.9	$27,140
Pottawatomie County	24,382	97.0%	100.0%	97.0%	29.0	$28,070
Pratt County	9,164	79.4%	100.0%	79.4%	12.5	$27,050
Rawlins County	2,530	46.2%	100.0%	46.2%	2.4	$27,840
Reno County	61,998	96.6%	100.0%	96.6%	49.4	$26,190
Republic County	4,636	93.1%	100.0%	93.1%	6.5	$28,901
Rice County	9,537	77.9%	100.0%	77.9%	13.1	$23,971
Riley County	74,228	88.6%	100.0%	88.6%	121.7	$26,883
Rooks County	4,920	87.1%	100.0%	87.1%	5.5	$25,072
Rush County	3,036	83.2%	100.0%	83.2%	4.2	$25,590
Russell County	6,856	99.4%	100.0%	99.4%	7.7	$26,300
Saline County	54,224	91.8%	100.0%	91.8%	75.3	$27,737
Scott County	4,823	100.0%	100.0%	100.0%	6.7	$31,132
Sedgwick County	516,022	98.6%	100.0%	98.6%	517.3	$28,673
Seward County	21,428	57.5%	100.0%	57.5%	33.5	$20,352
Shawnee County	176,875	100.0%	100.0%	100.0%	325.1	$29,979
Sheridan County	2,521	76.5%	100.0%	76.5%	2.8	$31,526
Sherman County	5,917	86.5%	100.0%	86.5%	5.6	$23,687
Smith County	3,583	87.6%	100.0%	87.6%	4.0	$28,598

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Stafford County	4,156	73.1%	100.0%	73.1%	5.2	$26,922
Stanton County	2,006	100.0%	100.0%	100.0%	2.9	$23,542
Stevens County	5,485	98.7%	100.0%	98.7%	7.5	$24,359
Sumner County	22,836	92.8%	100.0%	92.8%	19.3	$26,328
Thomas County	7,771	90.2%	100.0%	90.2%	7.2	$27,127
Trego County	2,803	88.2%	100.0%	88.2%	3.2	$33,555
Wabaunsee County	6,929	67.1%	100.0%	67.1%	8.7	$28,104
Wallace County	1,517	53.0%	99.9%	52.9%	1.7	$28,938
Washington County	5,406	79.5%	100.0%	79.5%	6.0	$27,718
Wichita County	2,119	95.2%	100.0%	95.2%	2.9	$29,762
Wilson County	8,525	100.0%	100.0%	100.0%	14.9	$26,523
Woodson County	3,138	91.7%	100.0%	91.7%	6.3	$21,123
Wyandotte County	165,429	99.8%	100.0%	99.8%	1,091.2	$21,298
Kentucky	**4,467,648**	**94.3%**	**99.4%**	**93.8%**	**113.1**	**$27,823**
Adair County	19,202	78.4%	98.1%	77.0%	47.4	$20,166
Allen County	21,314	98.9%	98.9%	97.8%	61.9	$21,262
Anderson County	22,747	98.7%	100.0%	98.7%	112.7	$26,339
Ballard County	7,888	79.7%	100.0%	79.7%	32.0	$25,571
Barren County	44,249	83.9%	99.7%	83.6%	90.8	$20,832
Bath County	12,500	98.7%	100.0%	98.7%	44.8	$21,175
Bell County	26,032	98.5%	99.9%	98.4%	72.5	$15,279
Boone County	133,578	99.2%	100.0%	99.2%	542.2	$34,433
Bourbon County	19,788	99.5%	100.0%	99.5%	68.3	$27,477
Boyd County	46,718	97.4%	99.1%	96.8%	292.2	$25,467
Boyle County	30,060	99.2%	100.0%	99.2%	166.8	$24,933
Bracken County	8,303	98.9%	100.0%	98.9%	40.4	$23,480
Breathitt County	12,630	68.6%	78.6%	59.4%	25.6	$17,729
Breckinridge County	20,477	74.6%	100.0%	74.6%	36.1	$22,521
Bullitt County	81,673	99.4%	100.0%	99.4%	275.0	$27,423
Butler County	12,879	27.1%	99.8%	27.0%	30.2	$22,597
Caldwell County	12,747	68.4%	100.0%	68.4%	37.0	$28,500
Calloway County	39,001	95.6%	100.0%	95.6%	101.3	$22,489
Campbell County	93,584	99.4%	100.0%	99.4%	618.5	$32,225
Carlisle County	4,760	96.0%	100.0%	96.0%	25.1	$24,943

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Carroll County	10,631	81.6%	100.0%	81.6%	82.7	$23,546
Carter County	26,797	89.8%	95.0%	85.6%	65.4	$17,782
Casey County	16,159	92.1%	96.8%	89.4%	36.4	$18,285
Christian County	70,461	87.2%	100.0%	87.2%	98.2	$21,770
Clark County	36,263	96.6%	100.0%	96.6%	143.6	$27,416
Clay County	19,901	97.4%	96.4%	94.2%	42.4	$15,063
Clinton County	10,218	92.1%	100.0%	92.1%	51.8	$20,235
Crittenden County	8,806	66.2%	100.0%	66.2%	24.5	$24,011
Cumberland County	6,614	57.2%	98.9%	57.2%	21.7	$17,926
Daviess County	101,510	90.5%	100.0%	90.5%	221.5	$27,462
Edmonson County	12,150	89.6%	97.2%	86.8%	40.1	$21,459
Elliott County	7,517	100.0%	65.8%	65.8%	32.1	$14,461
Estill County	14,106	97.5%	99.9%	97.5%	55.7	$17,658
Fayette County	323,152	99.7%	100.0%	99.7%	1,139.3	$32,965
Fleming County	14,581	99.3%	100.0%	99.3%	41.8	$23,482
Floyd County	35,589	94.2%	96.4%	90.8%	90.5	$18,462
Franklin County	50,990	99.5%	100.0%	99.5%	245.4	$28,801
Fulton County	5,969	62.6%	100.0%	62.6%	29.0	$19,043
Gallatin County	8,869	86.3%	100.0%	86.3%	87.6	$23,043
Garrard County	17,666	91.8%	100.0%	91.8%	76.8	$25,751
Grant County	25,069	95.9%	100.0%	95.9%	97.2	$22,073
Graves County	37,266	94.8%	100.0%	94.8%	67.5	$23,189
Grayson County	26,427	90.3%	100.0%	90.3%	53.2	$20,721
Green County	10,941	87.9%	98.7%	87.2%	38.3	$24,098
Greenup County	35,098	95.6%	99.0%	94.8%	101.9	$26,712
Hancock County	8,722	18.3%	100.0%	18.3%	46.5	$23,523
Hardin County	110,956	100.0%	100.0%	100.0%	178.0	$27,666
Harlan County	26,010	90.9%	94.8%	86.7%	55.8	$15,834
Harrison County	18,885	99.9%	100.0%	99.9%	61.6	$23,851
Hart County	19,035	90.6%	99.7%	90.3%	46.2	$20,421
Henderson County	45,210	89.2%	100.0%	89.2%	103.5	$25,376
Henry County	16,126	84.2%	100.0%	84.2%	56.3	$24,519
Hickman County	4,380	32.5%	100.0%	32.5%	18.1	$24,432
Hopkins County	44,686	81.9%	100.0%	81.9%	82.4	$24,190

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Jackson County	13,329	100.0%	98.6%	98.6%	38.6	$17,692
Jefferson County	766,757	100.0%	100.0%	100.0%	2,015.6	$31,980
Jessamine County	54,115	98.5%	100.0%	98.5%	314.4	$30,215
Johnson County	22,188	98.8%	99.1%	97.8%	84.7	$21,089
Kenton County	166,998	99.5%	100.0%	99.5%	1,042.1	$31,811
Knott County	14,806	99.2%	91.7%	90.9%	42.1	$18,201
Knox County	31,145	94.9%	99.9%	94.8%	80.6	$17,498
Larue County	14,397	87.5%	99.8%	87.4%	55.1	$21,939
Laurel County	60,813	98.8%	100.0%	98.8%	140.1	$21,039
Lawrence County	15,317	100.0%	88.8%	88.8%	36.9	$18,199
Lee County	7,401	45.4%	100.0%	45.4%	35.4	$17,179
Leslie County	9,877	79.3%	89.6%	71.0%	24.6	$15,691
Letcher County	21,553	96.7%	99.6%	96.4%	63.8	$18,811
Lewis County	13,275	91.6%	94.7%	87.8%	27.5	$20,059
Lincoln County	24,549	78.9%	100.0%	78.9%	73.5	$20,212
Livingston County	9,194	83.1%	100.0%	83.1%	29.4	$27,338
Logan County	27,102	71.9%	100.0%	71.9%	49.1	$23,177
Lyon County	8,210	28.2%	100.0%	28.2%	38.4	$26,621
Madison County	92,987	95.9%	100.0%	95.9%	212.6	$24,553
Magoffin County	12,161	100.0%	91.2%	91.2%	39.4	$18,233
Marion County	19,273	90.9%	98.4%	89.7%	56.2	$21,659
Marshall County	31,100	96.9%	100.0%	96.9%	103.2	$27,994
Martin County	11,195	81.9%	98.0%	80.1%	48.8	$15,492
Mason County	17,070	100.0%	100.0%	100.0%	71.1	$25,658
McCracken County	65,417	97.7%	100.0%	97.7%	263.0	$31,850
McCreary County	17,231	100.0%	98.8%	98.8%	40.4	$12,903
McLean County	9,207	50.6%	100.0%	50.6%	36.5	$24,557
Meade County	28,572	100.0%	99.8%	99.8%	93.5	$28,078
Menifee County	6,489	100.0%	100.0%	100.0%	31.9	$19,825
Mercer County	21,933	98.9%	100.0%	98.9%	88.2	$25,745
Metcalfe County	10,071	76.1%	98.1%	75.4%	34.8	$19,436
Monroe County	10,650	88.1%	94.0%	84.3%	32.3	$23,025
Montgomery County	28,157	100.0%	100.0%	100.0%	142.7	$21,877
Morgan County	13,309	100.0%	93.0%	93.0%	34.9	$17,307

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Muhlenberg County	30,622	80.3%	100.0%	80.3%	65.6	$21,521
Nelson County	46,233	95.9%	100.0%	95.9%	110.7	$31,387
Nicholas County	7,269	100.0%	100.0%	100.0%	37.2	$22,472
Ohio County	23,994	47.2%	100.0%	47.2%	40.9	$24,231
Oldham County	66,799	98.6%	100.0%	98.6%	356.8	$40,779
Owen County	10,901	89.9%	100.0%	89.9%	31.0	$23,045
Owsley County	4,415	100.0%	96.5%	96.5%	22.4	$17,766
Pendleton County	14,590	85.2%	100.0%	85.2%	52.6	$22,620
Perry County	25,758	97.4%	92.1%	90.7%	75.8	$20,140
Pike County	57,876	94.0%	98.7%	92.9%	73.6	$21,646
Powell County	12,359	76.0%	100.0%	76.0%	69.1	$20,397
Pulaski County	64,979	98.1%	100.0%	98.1%	98.7	$22,342
Robertson County	2,108	100.0%	100.0%	100.0%	21.1	$23,467
Rockcastle County	16,695	95.2%	100.0%	95.2%	52.7	$19,913
Rowan County	24,460	99.0%	97.8%	96.9%	87.4	$19,692
Russell County	17,923	86.0%	100.0%	86.0%	70.7	$19,149
Scott County	57,001	98.8%	100.0%	98.8%	202.3	$31,505
Shelby County	49,021	99.8%	100.0%	99.8%	129.1	$30,932
Simpson County	18,572	68.1%	100.0%	68.1%	79.3	$23,991
Spencer County	19,351	99.3%	100.0%	99.3%	103.7	$33,568
Taylor County	25,767	93.9%	98.9%	93.0%	96.7	$20,966
Todd County	12,294	49.5%	100.0%	49.5%	32.8	$23,188
Trigg County	14,651	69.7%	100.0%	69.7%	33.2	$26,893
Trimble County	8,471	83.2%	100.0%	83.2%	55.9	$26,089
Union County	14,381	81.0%	100.0%	81.0%	41.9	$22,027
Warren County	132,895	93.4%	100.0%	93.4%	245.4	$27,322
Washington County	12,095	84.0%	100.0%	84.0%	40.7	$24,570
Wayne County	20,333	83.1%	94.2%	79.3%	44.4	$19,130
Webster County	12,942	63.0%	100.0%	63.0%	39.0	$21,880
Whitley County	36,264	96.5%	100.0%	96.5%	82.8	$19,145
Wolfe County	7,157	100.0%	100.0%	100.0%	32.2	$14,113
Woodford County	26,734	99.1%	100.0%	99.1%	141.6	$31,259
Louisiana	**4,648,788**	**88.4%**	**100.0%**	**88.4%**	**107.6**	**$27,274**
Acadia Parish	62,045	72.0%	100.0%	72.0%	94.7	$22,784

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Allen Parish	25,627	61.1%	100.0%	61.1%	33.6	$20,203
Ascension Parish	126,604	98.8%	100.0%	98.8%	436.6	$32,961
Assumption Parish	21,891	98.9%	100.0%	98.9%	64.6	$26,238
Avoyelles Parish	40,144	72.6%	100.0%	72.6%	48.2	$21,390
Beauregard Parish	37,497	43.0%	100.0%	43.0%	32.4	$26,075
Bienville Parish	13,241	21.2%	100.0%	21.2%	16.3	$20,866
Bossier Parish	127,039	87.4%	100.0%	87.4%	151.2	$27,924
Caddo Parish	240,204	96.2%	100.0%	96.2%	273.4	$25,902
Calcasieu Parish	203,435	89.6%	100.0%	89.6%	191.3	$27,368
Caldwell Parish	9,918	52.1%	99.9%	52.1%	18.7	$20,574
Cameron Parish	6,973	1.8%	99.5%	1.8%	5.4	$29,000
Catahoula Parish	9,494	26.3%	100.0%	26.3%	13.4	$21,962
Claiborne Parish	15,670	50.0%	99.9%	50.0%	20.8	$16,948
Concordia Parish	19,259	76.0%	100.0%	76.0%	27.6	$19,172
De Soto Parish	27,463	72.4%	100.0%	72.4%	31.4	$24,796
East Baton Rouge Parish	440,059	100.0%	100.0%	100.0%	966.4	$31,073
East Carroll Parish	6,861	66.7%	100.0%	66.7%	16.3	$17,698
East Feliciana Parish	19,135	25.8%	100.0%	25.8%	42.2	$20,927
Evangeline Parish	33,395	53.5%	100.0%	53.5%	50.4	$18,344
Franklin Parish	20,015	32.2%	100.0%	32.2%	32.0	$19,785
Grant Parish	22,389	34.4%	100.0%	34.4%	34.8	$18,082
Iberia Parish	69,830	100.0%	100.0%	100.0%	121.6	$23,156
Iberville Parish	32,511	85.0%	100.0%	85.0%	52.6	$23,179
Jackson Parish	15,744	8.9%	100.0%	8.9%	27.7	$20,942
Jefferson Davis Parish	31,368	75.8%	100.0%	75.8%	48.2	$24,582
Jefferson Parish	432,493	98.4%	100.0%	98.4%	1,462.9	$29,776
LaSalle Parish	14,892	45.2%	100.0%	45.2%	23.8	$20,427
Lafayette Parish	244,387	97.5%	100.0%	97.5%	909.5	$30,988
Lafourche Parish	97,614	99.4%	100.0%	99.4%	91.4	$27,375
Lincoln Parish	46,742	73.4%	100.0%	73.4%	99.1	$22,498
Livingston Parish	140,789	98.6%	100.0%	98.6%	217.2	$28,995
Madison Parish	10,951	69.9%	100.0%	69.9%	17.5	$15,795
Morehouse Parish	24,874	86.5%	100.0%	86.5%	31.3	$19,399

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Natchitoches Parish	38,158	67.3%	100.0%	67.3%	30.5	$18,570
Orleans Parish	390,144	93.5%	100.0%	93.5%	2,302.8	$30,177
Ouachita Parish	153,279	96.7%	100.0%	96.7%	251.1	$23,663
Plaquemines Parish	23,197	75.3%	100.0%	75.3%	29.7	$26,818
Pointe Coupee Parish	21,730	83.6%	100.0%	83.6%	39.0	$26,663
Rapides Parish	129,648	82.2%	100.0%	82.2%	98.4	$24,478
Red River Parish	8,442	31.7%	100.0%	31.7%	21.7	$22,626
Richland Parish	20,122	49.4%	100.0%	49.4%	36.0	$20,128
Sabine Parish	23,884	24.6%	100.0%	24.6%	27.6	$22,637
St. Bernard Parish	47,244	94.2%	100.0%	94.2%	125.1	$21,217
St. Charles Parish	53,100	97.3%	100.0%	97.3%	190.3	$31,567
St. Helena Parish	10,132	28.3%	100.0%	28.3%	24.8	$23,224
St. James Parish	21,096	99.5%	100.0%	99.5%	87.3	$25,830
St. John the Baptist Parish	42,837	100.0%	100.0%	100.0%	201.0	$25,942
St. Landry Parish	82,124	94.8%	100.0%	94.8%	88.9	$19,647
St. Martin Parish	53,431	99.3%	100.0%	99.3%	72.4	$24,732
St. Mary Parish	49,348	98.3%	100.0%	98.3%	88.9	$22,364
St. Tammany Parish	260,419	98.7%	100.0%	98.7%	308.0	$34,201
Tangipahoa Parish	134,756	88.8%	100.0%	88.8%	170.3	$24,004
Tensas Parish	4,334	3.0%	100.0%	3.0%	7.2	$14,569
Terrebonne Parish	110,461	99.7%	100.0%	99.7%	89.7	$24,921
Union Parish	22,108	34.0%	100.0%	34.0%	25.2	$22,979
Vermilion Parish	59,511	96.1%	100.0%	96.1%	50.7	$24,546
Vernon Parish	47,429	58.8%	100.0%	58.8%	35.7	$23,763
Washington Parish	46,194	45.8%	100.0%	45.8%	69.0	$18,971
Webster Parish	38,340	68.2%	100.0%	68.2%	64.7	$18,701
West Baton Rouge Parish	26,465	91.3%	100.0%	91.3%	137.6	$28,482
West Carroll Parish	10,830	31.9%	100.0%	31.9%	30.1	$22,922
West Feliciana Parish	15,568	35.4%	100.0%	35.4%	38.6	$23,565
Winn Parish	13,904	40.1%	99.3%	40.1%	14.6	$20,162
Maine	**1,344,206**	**96.5%**	**99.3%**	**96.0%**	**43.6**	**$32,095**
Androscoggin County	108,277	99.8%	100.0%	99.8%	231.4	$27,231
Aroostook County	67,055	91.6%	91.2%	83.6%	10.1	$24,571

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Cumberland County	295,002	99.7%	99.8%	99.5%	353.2	$38,644
Franklin County	30,198	90.6%	99.2%	90.3%	17.8	$26,030
Hancock County	54,987	91.0%	99.7%	90.7%	34.7	$32,491
Kennebec County	122,302	99.8%	100.0%	99.8%	141.0	$29,084
Knox County	39,772	98.4%	99.7%	98.2%	108.9	$31,612
Lincoln County	34,634	96.5%	99.8%	96.2%	76.0	$32,400
Oxford County	57,975	92.1%	99.7%	92.0%	27.9	$23,770
Penobscot County	152,145	94.8%	99.9%	94.7%	44.8	$27,289
Piscataquis County	16,785	82.2%	99.3%	81.8%	4.2	$24,062
Sagadahoc County	35,856	98.1%	100.0%	98.1%	141.3	$34,432
Somerset County	50,484	91.3%	97.9%	89.9%	12.9	$23,557
Waldo County	39,715	88.9%	99.9%	88.9%	54.4	$28,860
Washington County	31,379	90.3%	99.9%	90.2%	12.2	$24,647
York County	207,640	99.0%	99.8%	98.8%	209.6	$35,052
Maryland	**6,045,675**	**97.5%**	**100.0%**	**97.5%**	**622.8**	**$41,522**
Allegany County	70,416	90.6%	99.9%	90.6%	166.0	$23,280
Anne Arundel County	579,234	97.6%	99.9%	97.5%	1,396.1	$44,979
Baltimore County	827,370	98.3%	100.0%	98.3%	1,382.9	$38,580
Baltimore city	593,490	98.7%	100.0%	98.7%	7,332.1	$29,700
Calvert County	92,525	97.8%	100.0%	97.8%	434.1	$43,504
Caroline County	33,405	93.3%	100.0%	93.3%	104.6	$27,866
Carroll County	168,447	97.7%	100.0%	97.7%	376.3	$40,667
Cecil County	102,855	96.8%	100.0%	96.8%	297.0	$32,976
Charles County	163,256	92.1%	100.0%	92.1%	356.6	$39,696
Dorchester County	31,929	89.2%	99.7%	88.9%	59.0	$30,135
Frederick County	259,546	97.8%	100.0%	97.8%	393.1	$41,432
Garrett County	29,014	91.7%	100.0%	91.7%	44.8	$27,980
Harford County	255,441	99.1%	100.0%	99.1%	584.4	$39,365
Howard County	325,690	97.7%	100.0%	97.7%	1,298.9	$52,586
Kent County	19,422	97.8%	100.0%	97.8%	70.1	$34,910
Montgomery County	1,050,688	98.8%	100.0%	98.8%	2,138.8	$52,828
Prince George's County	909,327	97.0%	100.0%	97.0%	1,883.9	$35,869

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Queen Anne's County	50,381	98.5%	99.0%	97.4%	135.5	$42,077
Somerset County	25,616	91.1%	99.9%	91.0%	80.1	$18,924
St. Mary's County	113,510	96.6%	99.8%	96.5%	317.8	$39,254
Talbot County	37,180	87.2%	99.7%	87.1%	138.5	$47,302
Washington County	151,048	96.7%	100.0%	96.7%	330.0	$29,802
Wicomico County	103,609	98.2%	100.0%	98.2%	276.7	$27,622
Worcester County	52,276	90.7%	99.2%	89.9%	111.6	$35,666
Massachusetts	**6,892,497**	**98.0%**	**100.0%**	**97.9%**	**883.6**	**$43,349**
Barnstable County	212,990	98.6%	99.9%	98.5%	541.0	$42,578
Berkshire County	124,944	94.0%	100.0%	94.0%	134.8	$34,287
Bristol County	565,217	98.4%	100.0%	98.4%	1,021.9	$34,226
Dukes County	17,332	92.7%	100.0%	92.7%	167.9	$43,822
Essex County	789,034	98.9%	99.9%	98.8%	1,601.9	$40,697
Franklin County	70,180	82.4%	100.0%	82.4%	100.4	$34,202
Hampden County	466,372	98.1%	100.0%	98.1%	755.7	$29,020
Hampshire County	160,830	87.3%	100.0%	87.3%	305.0	$33,605
Middlesex County	1,611,699	98.7%	100.0%	98.7%	1,970.7	$49,669
Nantucket County	11,399	98.8%	100.0%	98.8%	253.5	$51,270
Norfolk County	706,771	97.8%	99.9%	97.7%	1,784.3	$52,036
Plymouth County	521,200	97.8%	100.0%	97.8%	790.8	$41,343
Suffolk County	803,907	98.4%	99.9%	98.4%	13,823.7	$40,190
Worcester County	830,622	98.9%	100.0%	98.9%	549.8	$36,169
Michigan	**9,986,180**	**95.8%**	**100.0%**	**95.8%**	**176.6**	**$31,508**
Alcona County	10,404	70.5%	100.0%	70.5%	15.4	$25,219
Alger County	9,108	75.9%	99.4%	75.7%	10.0	$21,773
Allegan County	118,073	90.3%	100.0%	90.3%	143.1	$28,073
Alpena County	28,405	92.1%	100.0%	92.1%	49.7	$25,115
Antrim County	23,324	99.9%	100.0%	99.9%	49.0	$30,920
Arenac County	14,883	69.7%	99.6%	69.3%	41.0	$23,374
Baraga County	8,209	63.4%	100.0%	63.4%	9.1	$20,698
Barry County	61,546	80.7%	100.0%	80.7%	111.3	$28,783
Bay County	103,126	94.7%	99.9%	94.6%	233.2	$26,644
Benzie County	17,766	93.9%	100.0%	93.9%	55.6	$27,866

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Berrien County	153,401	94.8%	100.0%	94.8%	270.2	$29,311
Branch County	43,517	99.5%	100.0%	99.5%	85.9	$24,249
Calhoun County	134,159	95.3%	100.0%	95.3%	190.0	$25,652
Cass County	51,784	97.6%	100.0%	97.6%	105.7	$29,923
Charlevoix County	26,143	98.1%	100.0%	98.1%	62.8	$32,559
Cheboygan County	25,276	80.1%	99.9%	80.0%	35.3	$25,876
Chippewa County	37,349	76.5%	99.7%	76.5%	24.0	$23,310
Clare County	30,949	92.7%	100.0%	92.7%	54.8	$21,717
Clinton County	79,590	98.8%	100.0%	98.8%	140.5	$33,568
Crawford County	14,028	93.6%	100.0%	93.6%	25.2	$24,884
Delta County	35,784	83.4%	99.6%	83.4%	30.6	$26,852
Dickinson County	25,239	73.2%	100.0%	73.2%	33.1	$28,020
Eaton County	110,257	95.0%	100.0%	95.0%	191.7	$31,982
Emmet County	33,415	99.2%	100.0%	99.2%	71.5	$32,455
Genesee County	405,813	98.9%	100.0%	98.9%	637.1	$26,386
Gladwin County	25,447	97.0%	100.0%	97.0%	50.7	$24,594
Gogebic County	13,975	80.2%	99.8%	80.2%	12.7	$24,325
Grand Traverse County	92,569	98.2%	100.0%	98.2%	199.4	$33,754
Gratiot County	40,706	100.0%	100.0%	100.0%	71.6	$22,027
Hillsdale County	45,605	98.3%	100.0%	98.3%	76.2	$24,749
Houghton County	35,684	84.1%	100.0%	84.1%	35.4	$22,866
Huron County	30,981	67.6%	99.7%	67.4%	37.1	$27,130
Ingham County	292,406	98.3%	100.0%	98.3%	525.8	$28,366
Ionia County	64,685	100.0%	100.0%	100.0%	113.2	$23,956
Iosco County	25,081	87.7%	99.3%	86.9%	45.7	$25,075
Iron County	11,066	52.0%	99.5%	52.0%	9.5	$24,876
Isabella County	69,872	99.9%	100.0%	99.9%	122.0	$23,164
Jackson County	158,510	92.2%	100.0%	92.2%	225.9	$26,942
Kalamazoo County	265,063	98.3%	100.0%	98.3%	471.9	$30,555
Kalkaska County	18,035	89.5%	100.0%	89.5%	32.2	$23,687
Kent County	656,947	100.0%	100.0%	100.0%	775.7	$31,005
Keweenaw County	2,116	53.5%	87.8%	53.5%	3.9	$31,830
Lake County	11,853	42.6%	100.0%	42.6%	20.9	$19,012

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Lapeer County	87,607	83.2%	100.0%	83.2%	136.2	$28,309
Leelanau County	21,761	96.4%	99.8%	96.2%	62.7	$38,074
Lenawee County	98,448	94.1%	100.0%	94.1%	131.3	$26,958
Livingston County	191,993	99.2%	100.0%	99.2%	339.7	$38,399
Luce County	6,229	3.9%	99.5%	3.9%	6.9	$20,745
Mackinac County	10,799	57.2%	100.0%	57.2%	10.6	$28,941
Macomb County	873,972	98.6%	100.0%	98.6%	1,823.7	$31,104
Manistee County	24,558	76.2%	99.7%	75.9%	45.3	$25,778
Marquette County	66,699	89.3%	99.7%	89.3%	36.9	$26,290
Mason County	29,144	93.4%	100.0%	93.4%	58.9	$28,812
Mecosta County	43,453	100.0%	100.0%	100.0%	78.3	$23,182
Menominee County	22,780	66.2%	99.8%	66.2%	21.8	$27,609
Midland County	83,156	97.8%	100.0%	97.8%	161.1	$34,497
Missaukee County	15,118	43.9%	100.0%	43.9%	26.8	$22,850
Monroe County	150,500	95.9%	100.0%	95.9%	273.9	$30,295
Montcalm County	63,888	100.0%	100.0%	100.0%	90.6	$23,018
Montmorency County	9,327	70.2%	100.0%	70.2%	17.1	$23,930
Muskegon County	173,566	97.8%	100.0%	97.8%	347.7	$24,101
Newaygo County	48,974	79.3%	100.0%	79.3%	60.2	$24,005
Oakland County	1,257,584	99.1%	100.0%	99.1%	1,449.4	$42,760
Oceana County	26,467	76.2%	100.0%	76.2%	51.7	$23,018
Ogemaw County	20,994	91.0%	100.0%	91.0%	37.3	$22,527
Ontonagon County	5,720	67.3%	99.8%	67.3%	4.4	$23,850
Osceola County	23,455	97.2%	100.0%	97.2%	41.4	$22,142
Oscoda County	8,241	95.6%	100.0%	95.6%	14.6	$23,526
Otsego County	24,668	94.9%	100.0%	94.9%	47.9	$26,829
Ottawa County	291,815	99.6%	100.0%	99.6%	517.9	$30,558
Presque Isle County	12,592	85.4%	100.0%	85.4%	19.1	$26,503
Roscommon County	24,017	95.6%	100.0%	95.6%	46.2	$23,862
Saginaw County	190,539	95.6%	100.0%	95.6%	238.1	$26,625
Sanilac County	41,170	34.2%	100.0%	34.2%	42.8	$24,835
Schoolcraft County	8,094	57.2%	98.8%	57.2%	6.9	$22,931
Shiawassee County	68,122	91.5%	100.0%	91.5%	128.4	$27,398

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
St. Clair County	159,128	89.0%	99.6%	88.6%	220.7	$29,356
St. Joseph County	60,964	90.2%	100.0%	90.2%	121.8	$25,136
Tuscola County	52,245	70.0%	100.0%	70.0%	65.1	$24,968
Van Buren County	75,672	85.8%	100.0%	85.8%	124.6	$26,771
Washtenaw County	367,601	98.2%	100.0%	98.2%	520.7	$39,486
Wayne County	1,749,343	99.2%	100.0%	99.2%	2,858.0	$25,976
Wexford County	33,628	67.1%	100.0%	67.1%	59.5	$22,760
Minnesota	**5,639,445**	**97.5%**	**100.0%**	**97.5%**	**70.8**	**$37,192**
Aitkin County	15,886	72.2%	100.0%	72.2%	8.7	$27,646
Anoka County	356,909	99.2%	100.0%	99.2%	843.7	$35,806
Becker County	34,422	94.2%	100.0%	94.2%	26.2	$29,710
Beltrami County	47,182	99.3%	99.5%	98.8%	18.8	$24,781
Benton County	40,887	92.6%	100.0%	92.6%	100.1	$28,566
Big Stone County	4,991	93.5%	100.0%	93.5%	10.0	$30,489
Blue Earth County	67,650	99.2%	100.0%	99.2%	90.5	$28,824
Brown County	25,008	97.8%	100.0%	97.8%	40.9	$30,373
Carlton County	35,871	77.3%	100.0%	77.3%	41.6	$28,117
Carver County	105,081	99.9%	100.0%	99.9%	296.6	$45,637
Cass County	29,778	89.7%	100.0%	89.7%	14.7	$29,053
Chippewa County	11,800	100.0%	100.0%	100.0%	20.3	$30,168
Chisago County	56,564	92.1%	100.0%	92.1%	136.3	$33,927
Clay County	64,221	98.5%	100.0%	98.5%	61.4	$29,631
Clearwater County	8,817	100.0%	100.0%	100.0%	8.8	$26,173
Cook County	5,463	98.5%	92.9%	92.2%	3.8	$32,703
Cottonwood County	11,196	100.0%	100.0%	100.0%	17.5	$27,209
Crow Wing County	65,055	95.1%	100.0%	95.1%	65.1	$30,900
Dakota County	429,016	99.9%	100.0%	99.9%	763.1	$40,441
Dodge County	20,932	100.0%	100.0%	100.0%	47.7	$32,795
Douglas County	38,140	99.7%	100.0%	99.7%	59.8	$34,547
Faribault County	13,653	98.5%	100.0%	98.5%	19.2	$29,748
Fillmore County	21,067	96.6%	99.6%	96.2%	24.5	$29,440
Freeborn County	30,281	100.0%	100.0%	100.0%	42.8	$28,459
Goodhue County	46,340	99.7%	100.0%	99.7%	61.2	$33,400
Grant County	5,972	99.0%	100.0%	99.0%	10.9	$31,940

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Hennepin County	1,265,838	100.0%	100.0%	100.0%	2,286.6	$43,976
Houston County	18,600	90.7%	99.7%	90.5%	33.7	$31,453
Hubbard County	21,491	98.1%	100.0%	98.1%	23.2	$29,312
Isanti County	40,591	81.3%	100.0%	81.3%	93.1	$32,008
Itasca County	45,130	94.4%	100.0%	94.4%	16.9	$28,636
Jackson County	9,846	100.0%	100.0%	100.0%	14.0	$33,358
Kanabec County	16,334	63.2%	100.0%	63.2%	31.3	$27,331
Kandiyohi County	43,194	100.0%	100.0%	100.0%	54.2	$30,217
Kittson County	4,298	71.8%	100.0%	71.8%	3.9	$29,946
Koochiching County	12,229	82.3%	100.0%	82.3%	3.9	$29,051
Lac qui Parle County	6,623	99.4%	100.0%	99.4%	8.7	$31,686
Lake County	10,641	91.7%	99.7%	91.6%	5.0	$33,602
Lake of the Woods County	3,740	60.7%	99.4%	60.7%	2.9	$26,526
Le Sueur County	28,871	99.7%	100.0%	99.7%	64.3	$32,120
Lincoln County	5,639	100.0%	100.0%	100.0%	10.5	$28,504
Lyon County	25,474	100.0%	100.0%	100.0%	35.6	$30,531
Mahnomen County	5,527	92.8%	100.0%	92.8%	9.9	$20,953
Marshall County	9,336	81.1%	100.0%	81.1%	5.3	$29,670
Martin County	19,683	99.4%	100.0%	99.4%	27.6	$31,091
McLeod County	35,893	98.4%	100.0%	98.4%	73.0	$31,723
Meeker County	23,222	96.5%	100.0%	96.5%	38.2	$31,819
Mille Lacs County	26,275	76.9%	100.0%	76.9%	45.9	$26,679
Morrison County	33,384	91.3%	100.0%	91.3%	29.7	$28,792
Mower County	40,061	99.9%	100.0%	99.9%	56.3	$29,116
Murray County	8,194	100.0%	100.0%	100.0%	11.6	$31,768
Nicollet County	34,274	95.3%	100.0%	95.3%	76.4	$31,225
Nobles County	21,629	100.0%	100.0%	100.0%	30.2	$25,554
Norman County	6,375	97.6%	100.0%	97.6%	7.3	$28,351
Olmsted County	158,280	99.9%	100.0%	99.9%	242.3	$39,667
Otter Tail County	58,746	98.7%	100.0%	98.7%	29.8	$30,846
Pennington County	14,119	98.7%	100.0%	98.7%	22.9	$30,625
Pine County	29,578	67.6%	100.0%	67.6%	21.0	$25,302
Pipestone County	9,123	100.0%	100.0%	100.0%	19.6	$29,716
Polk County	31,364	99.5%	100.0%	99.5%	15.9	$28,856

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Pope County	11,247	99.5%	100.0%	99.5%	16.8	$32,943
Ramsey County	550,321	99.9%	100.0%	99.9%	3,615.5	$34,049
Red Lake County	4,052	100.0%	100.0%	100.0%	9.4	$29,731
Redwood County	15,170	100.0%	100.0%	100.0%	17.3	$28,011
Renville County	14,548	100.0%	100.0%	100.0%	14.8	$31,585
Rice County	66,963	99.0%	100.0%	99.0%	135.1	$29,767
Rock County	9,315	100.0%	100.0%	100.0%	19.3	$30,544
Roseau County	15,164	78.9%	100.0%	78.9%	9.1	$28,049
Scott County	148,995	99.3%	100.0%	99.3%	418.0	$39,952
Sherburne County	97,231	94.0%	100.0%	94.0%	224.6	$34,013
Sibley County	14,865	99.4%	100.0%	99.4%	25.2	$30,977
St. Louis County	199,070	89.0%	99.9%	89.0%	31.9	$30,321
Stearns County	161,073	96.2%	100.0%	96.2%	119.9	$29,815
Steele County	36,649	100.0%	100.0%	100.0%	85.3	$30,822
Stevens County	9,805	99.0%	100.0%	99.0%	17.4	$31,694
Swift County	9,266	99.9%	100.0%	99.9%	12.5	$30,208
Todd County	24,661	79.9%	100.0%	79.9%	26.1	$25,848
Traverse County	3,259	97.6%	100.0%	97.6%	5.7	$30,553
Wabasha County	21,627	99.4%	99.5%	98.9%	41.4	$33,664
Wadena County	13,682	97.1%	100.0%	97.1%	25.5	$24,864
Waseca County	18,612	100.0%	100.0%	100.0%	44.0	$28,067
Washington County	262,419	98.3%	100.0%	98.3%	682.9	$43,789
Watonwan County	10,897	99.6%	100.0%	99.6%	25.1	$27,772
Wilkin County	6,207	99.6%	100.0%	99.6%	8.3	$32,066
Winona County	50,484	99.9%	99.6%	99.5%	80.6	$28,689
Wright County	138,370	96.2%	100.0%	96.2%	209.2	$34,325
Yellow Medicine County	9,709	100.0%	100.0%	100.0%	12.8	$29,379
Mississippi	**2,974,687**	**80.3%**	**100.0%**	**80.3%**	**63.4**	**$24,160**
Adams County	30,693	84.9%	100.0%	84.9%	66.4	$17,851
Alcorn County	36,953	77.6%	100.0%	77.6%	92.4	$21,321
Amite County	12,297	74.7%	99.9%	74.7%	16.8	$20,380
Attala County	18,174	51.6%	100.0%	51.6%	24.7	$20,936
Benton County	8,259	44.1%	100.0%	44.1%	20.3	$20,363
Bolivar County	30,628	76.8%	100.0%	76.8%	34.9	$17,713

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Calhoun County	14,361	71.8%	100.0%	71.8%	24.5	$19,099
Carroll County	9,947	27.6%	100.0%	27.6%	15.8	$22,567
Chickasaw County	17,103	55.9%	100.0%	55.9%	34.1	$19,556
Choctaw County	8,210	56.6%	100.0%	56.6%	19.6	$20,589
Claiborne County	8,988	41.4%	100.0%	41.4%	18.4	$13,503
Clarke County	15,541	44.7%	99.7%	44.7%	22.5	$22,422
Clay County	19,316	64.7%	100.0%	64.7%	47.1	$21,076
Coahoma County	22,124	75.2%	100.0%	75.2%	40.0	$17,518
Copiah County	28,065	40.1%	100.0%	40.1%	36.1	$19,434
Covington County	18,636	4.5%	100.0%	4.5%	45.0	$18,353
DeSoto County	184,937	96.6%	100.0%	96.6%	388.4	$29,190
Forrest County	74,897	91.3%	100.0%	91.3%	160.6	$22,042
Franklin County	7,713	25.3%	100.0%	25.3%	13.7	$22,769
George County	24,499	76.0%	100.0%	76.0%	51.2	$21,105
Greene County	13,586	22.6%	100.0%	22.6%	19.1	$17,453
Grenada County	20,758	80.3%	100.0%	80.3%	49.2	$21,668
Hancock County	47,628	99.4%	100.0%	99.4%	100.5	$26,659
Harrison County	208,080	97.6%	100.0%	97.6%	362.5	$24,445
Hinds County	231,840	91.8%	100.0%	91.8%	266.6	$23,114
Holmes County	17,010	62.1%	99.9%	62.1%	22.5	$13,924
Humphreys County	8,064	56.8%	100.0%	56.8%	19.3	$16,604
Issaquena County	1,327	1.7%	100.0%	1.7%	3.2	$18,942
Itawamba County	23,390	64.9%	100.0%	64.9%	43.9	$20,629
Jackson County	143,616	97.9%	100.0%	97.9%	198.7	$25,341
Jasper County	16,383	60.5%	100.0%	60.5%	24.2	$21,929
Jefferson County	6,990	3.1%	100.0%	3.1%	13.4	$13,374
Jefferson Davis County	11,128	65.4%	100.0%	65.4%	27.2	$19,233
Jones County	68,098	78.6%	100.0%	78.6%	98.0	$22,836
Kemper County	9,742	13.7%	99.9%	13.7%	12.7	$15,518
Lafayette County	54,019	82.6%	100.0%	82.6%	85.5	$26,154
Lamar County	63,342	83.8%	100.0%	83.8%	127.4	$28,934
Lauderdale County	74,125	86.8%	100.0%	86.8%	105.3	$23,741
Lawrence County	12,586	6.1%	100.0%	6.1%	29.2	$21,809
Leake County	22,786	45.5%	100.0%	45.5%	39.1	$17,960

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Lee County	85,435	88.8%	100.0%	88.8%	189.9	$25,467
Leflore County	28,183	81.3%	100.0%	81.3%	47.6	$16,861
Lincoln County	34,153	71.9%	100.0%	71.9%	58.3	$21,892
Lowndes County	58,595	89.9%	100.0%	89.9%	115.9	$24,499
Madison County	106,271	96.3%	100.0%	96.3%	148.7	$38,496
Marion County	24,573	48.9%	100.0%	48.9%	45.3	$18,687
Marshall County	35,294	67.7%	100.0%	67.7%	50.0	$21,352
Monroe County	35,252	71.8%	100.0%	71.8%	46.1	$23,158
Montgomery County	9,775	78.8%	100.0%	78.8%	24.0	$22,913
Neshoba County	29,118	64.5%	100.0%	64.5%	51.1	$19,641
Newton County	21,018	69.0%	100.0%	69.0%	36.4	$21,600
Noxubee County	10,417	49.9%	100.0%	49.9%	15.0	$17,637
Oktibbeha County	49,587	86.5%	100.0%	86.5%	108.2	$22,136
Panola County	34,192	75.4%	100.0%	75.4%	49.9	$19,972
Pearl River County	55,534	93.9%	100.0%	93.9%	68.5	$23,135
Perry County	11,973	22.5%	99.2%	22.5%	18.5	$21,611
Pike County	39,288	78.5%	100.0%	78.5%	96.1	$17,954
Pontotoc County	32,174	56.4%	100.0%	56.4%	64.6	$20,401
Prentiss County	25,126	67.9%	100.0%	67.9%	60.5	$19,693
Quitman County	6,792	61.9%	100.0%	61.9%	16.8	$15,353
Rankin County	155,271	95.5%	100.0%	95.5%	200.2	$29,874
Scott County	28,124	57.4%	100.0%	57.4%	46.2	$21,640
Sharkey County	4,321	55.5%	100.0%	55.5%	10.0	$17,877
Simpson County	26,658	58.1%	100.0%	58.1%	45.2	$20,495
Smith County	15,916	45.1%	99.9%	45.1%	25.0	$23,164
Stone County	18,336	89.3%	100.0%	89.3%	41.2	$21,931
Sunflower County	25,110	74.9%	100.0%	74.9%	36.0	$15,464
Tallahatchie County	13,809	54.9%	100.0%	54.9%	21.4	$14,943
Tate County	28,321	78.2%	100.0%	78.2%	70.0	$23,542
Tippah County	22,015	84.6%	100.0%	84.6%	48.1	$20,180
Tishomingo County	19,383	63.6%	100.0%	63.6%	45.7	$20,037
Tunica County	9,632	68.1%	100.0%	68.1%	21.2	$19,115
Union County	28,815	66.8%	100.0%	66.8%	69.3	$20,088
Walthall County	14,286	26.6%	100.0%	26.6%	35.4	$20,337

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Warren County	45,381	97.5%	99.8%	97.5%	77.1	$23,793
Washington County	43,909	90.1%	100.0%	90.1%	60.6	$19,884
Wayne County	20,183	62.5%	99.4%	62.4%	24.9	$22,611
Webster County	9,689	49.4%	100.0%	49.4%	23.0	$21,109
Wilkinson County	8,630	58.1%	100.0%	58.1%	12.7	$13,231
Winston County	17,955	68.7%	100.0%	68.7%	29.6	$24,538
Yalobusha County	12,108	65.5%	100.0%	65.5%	25.9	$21,140
Yazoo County	28,246	72.9%	99.9%	72.9%	30.6	$18,866
Missouri	**6,136,029**	**93.1%**	**100.0%**	**93.1%**	**89.3**	**$30,498**
Adair County	25,343	97.1%	99.6%	96.7%	44.7	$22,000
Andrew County	17,711	88.1%	100.0%	88.1%	40.9	$28,027
Atchison County	5,143	79.0%	100.0%	79.0%	9.4	$29,009
Audrain County	25,388	95.4%	100.0%	95.4%	36.7	$21,819
Barry County	35,789	97.9%	100.0%	97.9%	46.0	$21,960
Barton County	11,754	74.0%	100.0%	74.0%	19.9	$25,938
Bates County	16,172	65.8%	100.0%	65.8%	19.3	$27,035
Benton County	19,441	31.2%	99.9%	31.2%	27.6	$23,984
Bollinger County	12,133	1.6%	100.0%	1.6%	19.6	$20,949
Boone County	180,001	92.5%	100.0%	92.5%	262.6	$29,365
Buchanan County	87,364	89.1%	100.0%	89.1%	214.1	$25,419
Butler County	42,478	82.4%	100.0%	82.4%	61.1	$21,286
Caldwell County	9,020	37.6%	100.0%	37.6%	21.2	$24,238
Callaway County	44,743	100.0%	100.0%	100.0%	53.6	$25,069
Camden County	46,305	91.4%	100.0%	91.4%	70.6	$27,385
Cape Girardeau County	78,871	85.8%	100.0%	85.8%	136.3	$26,546
Carroll County	8,679	64.9%	100.0%	64.9%	12.5	$24,597
Carter County	5,982	18.2%	100.0%	18.2%	11.8	$21,884
Cass County	104,932	93.7%	100.0%	93.7%	150.6	$31,675
Cedar County	14,348	74.7%	100.0%	74.7%	30.2	$22,434
Chariton County	7,426	60.9%	100.0%	60.9%	9.9	$24,470
Christian County	88,579	100.0%	100.0%	100.0%	157.4	$27,024
Clark County	6,797	84.6%	100.0%	84.6%	13.5	$28,537
Clay County	249,934	98.4%	100.0%	98.4%	629.1	$33,342

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Clinton County	20,387	82.5%	100.0%	82.5%	48.7	$28,216
Cole County	76,745	100.0%	100.0%	100.0%	194.9	$29,433
Cooper County	17,709	100.0%	100.0%	100.0%	31.4	$22,895
Crawford County	23,920	98.5%	99.9%	98.4%	32.2	$21,107
Dade County	7,561	63.1%	100.0%	63.1%	15.4	$21,538
Dallas County	16,878	100.0%	99.9%	99.9%	31.2	$22,096
Daviess County	8,278	70.8%	100.0%	70.8%	14.7	$24,081
DeKalb County	12,547	61.0%	100.0%	61.0%	29.8	$19,524
Dent County	15,573	68.2%	98.6%	67.8%	20.7	$22,581
Douglas County	13,185	100.0%	98.5%	98.5%	16.2	$19,164
Dunklin County	29,131	99.8%	100.0%	99.8%	53.8	$19,818
Franklin County	103,967	95.1%	100.0%	95.1%	112.7	$28,773
Gasconade County	14,706	99.4%	100.0%	99.4%	28.4	$27,240
Gentry County	6,571	95.8%	100.0%	95.8%	13.4	$21,059
Greene County	293,084	100.0%	100.0%	100.0%	434.0	$26,378
Grundy County	9,850	91.8%	100.0%	91.8%	22.6	$23,249
Harrison County	8,352	68.2%	100.0%	68.2%	11.6	$20,986
Henry County	21,824	50.7%	100.0%	50.7%	31.3	$25,244
Hickory County	9,544	20.7%	100.0%	20.7%	23.9	$20,646
Holt County	4,403	57.7%	100.0%	57.7%	9.5	$25,517
Howard County	10,001	16.2%	100.0%	16.2%	21.6	$23,328
Howell County	40,117	90.2%	99.8%	90.0%	43.3	$20,873
Iron County	10,125	63.2%	98.8%	62.9%	18.4	$20,696
Jackson County	703,008	98.5%	100.0%	98.5%	1,163.0	$30,237
Jasper County	121,312	98.1%	100.0%	98.1%	190.0	$24,086
Jefferson County	225,081	96.5%	100.0%	96.5%	342.8	$28,844
Johnson County	54,056	92.1%	100.0%	92.1%	65.2	$24,146
Knox County	3,959	65.1%	99.5%	64.8%	7.9	$22,020
Laclede County	35,723	100.0%	100.0%	100.0%	46.7	$21,577
Lafayette County	32,708	76.8%	100.0%	76.8%	52.0	$28,056
Lawrence County	38,355	99.1%	100.0%	99.1%	62.7	$22,341
Lewis County	9,776	89.4%	99.8%	89.2%	19.4	$22,602
Lincoln County	59,010	92.4%	99.7%	92.1%	94.2	$25,472
Linn County	11,920	88.8%	99.7%	88.4%	19.4	$24,150

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Livingston County	15,223	75.6%	100.0%	75.6%	28.6	$23,083
Macon County	15,117	94.4%	99.4%	93.7%	18.9	$21,118
Madison County	12,088	51.5%	100.0%	51.5%	24.5	$22,119
Maries County	8,697	99.6%	100.0%	99.6%	16.5	$23,729
Marion County	28,530	98.6%	100.0%	98.6%	65.3	$23,589
McDonald County	22,837	81.3%	100.0%	81.3%	42.3	$20,270
Mercer County	3,617	69.4%	100.0%	69.4%	8.0	$22,097
Miller County	25,618	96.5%	100.0%	96.5%	43.2	$23,408
Mississippi County	13,180	92.5%	100.0%	92.5%	32.0	$18,462
Moniteau County	16,132	100.0%	100.0%	100.0%	38.9	$22,445
Monroe County	8,644	71.5%	100.0%	71.5%	13.3	$24,625
Montgomery County	11,551	99.7%	100.0%	99.7%	21.5	$22,980
Morgan County	20,627	98.5%	99.9%	98.4%	34.5	$21,265
New Madrid County	17,076	95.1%	100.0%	95.1%	25.3	$20,638
Newton County	58,236	100.0%	100.0%	100.0%	93.2	$26,996
Nodaway County	22,092	91.2%	100.0%	91.2%	25.2	$22,151
Oregon County	10,529	20.8%	98.5%	20.1%	13.3	$18,103
Osage County	13,615	100.0%	100.0%	100.0%	22.5	$26,037
Ozark County	9,174	3.7%	99.9%	3.7%	12.3	$18,818
Pemiscot County	15,805	90.7%	100.0%	90.7%	32.1	$19,876
Perry County	19,136	53.3%	100.0%	53.3%	40.3	$24,710
Pettis County	42,339	75.3%	100.0%	75.3%	62.1	$22,897
Phelps County	44,573	83.9%	100.0%	83.9%	66.4	$24,304
Pike County	18,302	71.3%	100.0%	71.3%	27.3	$22,302
Platte County	104,407	95.5%	100.0%	95.5%	248.5	$39,427
Polk County	32,149	93.5%	100.0%	93.5%	50.6	$22,575
Pulaski County	52,606	94.4%	100.0%	94.4%	96.2	$22,018
Putnam County	4,696	95.1%	100.0%	95.1%	9.1	$22,607
Ralls County	10,306	98.4%	100.0%	98.4%	21.9	$26,536
Randolph County	24,748	74.2%	99.9%	74.1%	51.3	$20,836
Ray County	23,017	65.2%	100.0%	65.2%	40.5	$27,768
Reynolds County	6,270	52.2%	97.1%	51.6%	7.8	$22,693
Ripley County	13,288	24.7%	98.9%	24.7%	21.1	$17,502
Saline County	22,761	81.1%	100.0%	81.1%	30.1	$22,802

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Schuyler County	4,660	92.0%	100.0%	92.0%	15.2	$19,316
Scotland County	4,902	92.3%	99.6%	92.3%	11.2	$23,809
Scott County	38,280	92.0%	100.0%	92.0%	91.1	$23,185
Shannon County	8,166	15.1%	97.7%	15.0%	8.1	$18,066
Shelby County	5,930	92.8%	98.1%	91.7%	11.8	$23,501
St. Charles County	402,022	98.8%	100.0%	98.8%	717.3	$37,229
St. Clair County	9,397	11.8%	100.0%	11.8%	14.0	$22,672
St. Francois County	67,213	89.3%	100.0%	89.3%	148.7	$22,575
St. Louis County	994,205	99.9%	100.0%	99.9%	1,957.9	$39,784
St. Louis city	300,576	100.0%	100.0%	100.0%	4,855.1	$28,478
Ste. Genevieve County	17,894	58.6%	100.0%	58.6%	35.8	$28,578
Stoddard County	29,025	89.6%	100.0%	89.6%	35.3	$22,205
Stone County	31,952	100.0%	100.0%	100.0%	68.9	$27,792
Sullivan County	6,089	78.6%	100.0%	78.6%	9.4	$21,661
Taney County	55,928	96.3%	100.0%	96.3%	88.4	$22,106
Texas County	25,398	76.4%	99.8%	76.2%	21.6	$19,485
Vernon County	20,563	76.0%	100.0%	76.0%	24.9	$24,388
Warren County	35,649	83.0%	100.0%	83.0%	83.2	$27,523
Washington County	24,730	50.9%	99.7%	50.7%	32.5	$18,915
Wayne County	12,873	43.3%	100.0%	43.3%	17.0	$18,759
Webster County	39,590	100.0%	100.0%	100.0%	66.8	$21,682
Worth County	2,013	59.3%	100.0%	59.3%	7.6	$24,159
Wright County	18,289	100.0%	99.5%	99.5%	26.8	$19,909
Montana	**1,068,760**	**86.7%**	**99.0%**	**86.2%**	**7.3**	**$30,680**
Beaverhead County	9,453	83.6%	97.2%	81.1%	1.7	$28,941
Big Horn County	13,319	45.2%	97.9%	45.0%	2.7	$18,560
Blaine County	6,681	98.3%	84.0%	82.8%	1.6	$18,155
Broadwater County	6,237	59.5%	99.8%	59.4%	5.2	$32,362
Carbon County	10,725	48.1%	100.0%	48.1%	5.2	$32,553
Carter County	1,252	52.6%	40.8%	16.2%	0.4	$32,001
Cascade County	81,366	99.8%	100.0%	99.8%	30.2	$29,212
Chouteau County	5,635	98.9%	99.0%	97.9%	1.4	$22,661
Custer County	11,402	91.9%	98.9%	91.7%	3.0	$30,123
Daniels County	1,690	98.3%	77.3%	76.2%	1.2	$34,799

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Dawson County	8,613	88.4%	98.5%	87.1%	3.6	$32,501
Deer Lodge County	9,140	79.1%	99.8%	78.9%	12.4	$25,742
Fallon County	2,846	76.5%	99.3%	76.4%	1.8	$34,329
Fergus County	11,050	87.2%	95.9%	83.2%	2.5	$29,237
Flathead County	103,803	84.7%	99.8%	84.7%	20.4	$30,068
Gallatin County	114,434	99.0%	99.9%	99.0%	44.0	$34,331
Garfield County	1,258	42.8%	77.5%	34.8%	0.3	$27,291
Glacier County	13,753	69.3%	99.7%	69.2%	4.6	$17,219
Golden Valley County	821	90.9%	100.0%	90.9%	0.7	$27,476
Granite County	3,379	30.4%	96.8%	28.7%	2.0	$29,074
Hill County	16,484	97.1%	99.9%	97.0%	5.7	$23,017
Jefferson County	12,219	66.7%	100.0%	66.6%	7.4	$32,133
Judith Basin County	2,006	86.3%	96.7%	83.5%	1.1	$29,827
Lake County	30,458	70.7%	100.0%	70.7%	20.4	$24,912
Lewis and Clark County	69,432	99.2%	99.7%	99.0%	20.1	$32,433
Liberty County	2,337	98.8%	88.6%	87.4%	1.6	$45,587
Lincoln County	19,980	74.0%	95.3%	72.9%	5.5	$24,082
Madison County	8,600	69.3%	99.5%	69.2%	2.4	$34,014
McCone County	1,664	49.5%	92.8%	48.0%	0.6	$27,365
Meagher County	1,862	96.6%	95.5%	92.7%	0.8	$23,972
Mineral County	4,396	35.9%	98.6%	35.9%	3.6	$23,744
Missoula County	119,597	93.2%	99.9%	93.1%	46.1	$30,636
Musselshell County	4,633	58.9%	99.9%	58.8%	2.5	$22,737
Park County	16,606	70.7%	99.1%	70.5%	5.9	$32,133
Petroleum County	487	40.0%	92.0%	39.8%	0.3	$32,565
Phillips County	3,954	82.8%	93.1%	81.0%	0.8	$23,533
Pondera County	5,911	37.9%	100.0%	37.9%	3.6	$24,392
Powder River County	1,682	56.7%	92.7%	55.8%	0.5	$30,969
Powell County	6,890	54.4%	98.2%	54.3%	3.0	$25,060
Prairie County	1,077	63.4%	97.9%	63.1%	0.6	$28,087
Ravalli County	43,802	89.9%	98.6%	89.6%	18.3	$27,766
Richland County	10,803	78.7%	98.0%	78.2%	5.2	$31,849
Roosevelt County	11,004	75.6%	99.1%	75.2%	4.7	$18,813

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Rosebud County	8,937	64.3%	98.7%	64.3%	1.8	$23,471
Sanders County	12,113	33.0%	94.0%	30.2%	4.4	$23,822
Sheridan County	3,309	81.8%	86.9%	70.9%	2.0	$33,711
Silver Bow County	34,915	95.9%	100.0%	95.9%	48.6	$26,224
Stillwater County	9,642	72.7%	97.6%	71.2%	5.4	$32,061
Sweet Grass County	3,737	91.8%	99.7%	91.8%	2.0	$29,649
Teton County	6,147	56.5%	99.3%	56.5%	2.7	$27,402
Toole County	4,736	44.3%	100.0%	44.3%	2.5	$26,434
Treasure County	696	68.4%	98.9%	67.2%	0.7	$26,348
Valley County	7,396	81.2%	94.6%	76.8%	1.5	$28,899
Wheatland County	2,126	97.1%	100.0%	97.1%	1.5	$21,442
Wibaux County	969	8.3%	64.7%	7.6%	1.1	$23,137
Yellowstone County	161,296	93.5%	100.0%	93.5%	61.3	$33,007
Nebraska	**1,934,349**	**96.3%**	**100.0%**	**96.3%**	**25.2**	**$31,771**
Adams County	31,363	93.9%	100.0%	93.9%	55.7	$28,783
Antelope County	6,298	80.1%	100.0%	80.1%	7.3	$26,406
Arthur County	463	75.6%	100.0%	75.6%	0.6	$26,514
Banner County	744	98.8%	100.0%	98.8%	1.0	$34,670
Blaine County	465	48.4%	100.0%	48.4%	0.7	$26,767
Boone County	5,192	63.1%	100.0%	63.1%	7.6	$30,680
Box Butte County	10,783	98.5%	100.0%	98.5%	10.0	$28,835
Boyd County	1,919	99.4%	100.0%	99.4%	3.6	$27,951
Brown County	2,955	26.8%	99.2%	26.8%	2.4	$28,860
Buffalo County	49,659	96.5%	100.0%	96.5%	51.3	$30,184
Burt County	6,459	98.1%	100.0%	98.1%	13.1	$28,499
Butler County	8,016	100.0%	100.0%	100.0%	13.7	$28,776
Cass County	26,246	100.0%	100.0%	100.0%	47.1	$33,178
Cedar County	8,402	65.5%	100.0%	65.5%	11.3	$29,494
Chase County	3,924	100.0%	100.0%	100.0%	4.4	$29,526
Cherry County	5,689	51.5%	99.6%	51.4%	1.0	$27,605
Cheyenne County	8,910	95.2%	100.0%	95.2%	7.4	$32,321
Clay County	6,203	74.3%	100.0%	74.3%	10.8	$27,297
Colfax County	10,709	100.0%	100.0%	100.0%	26.0	$22,407
Cuming County	8,846	89.0%	100.0%	89.0%	15.5	$29,306

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Custer County	10,777	66.4%	100.0%	66.4%	4.2	$33,294
Dakota County	20,026	90.8%	100.0%	90.8%	75.8	$24,365
Dawes County	8,589	79.0%	100.0%	79.0%	6.2	$26,021
Dawson County	23,595	90.2%	100.0%	90.2%	23.3	$25,590
Deuel County	1,794	94.1%	100.0%	94.1%	4.1	$27,397
Dixon County	5,636	92.4%	100.0%	92.4%	11.8	$26,757
Dodge County	36,565	100.0%	100.0%	100.0%	69.2	$27,494
Douglas County	571,316	100.0%	100.0%	100.0%	1,739.4	$33,734
Dundy County	1,693	96.1%	100.0%	96.1%	1.8	$25,790
Fillmore County	5,462	84.1%	100.0%	84.1%	9.5	$32,631
Franklin County	2,979	72.0%	100.0%	72.0%	5.2	$27,757
Frontier County	2,627	76.8%	100.0%	76.8%	2.7	$28,583
Furnas County	4,676	78.7%	100.0%	78.7%	6.5	$27,031
Gage County	21,513	95.3%	100.0%	95.3%	25.3	$28,438
Garden County	1,837	92.5%	100.0%	92.5%	1.1	$33,572
Garfield County	1,969	90.2%	100.0%	90.2%	3.5	$27,109
Gosper County	1,990	52.5%	100.0%	52.5%	4.3	$34,731
Grant County	623	69.3%	100.0%	69.3%	0.8	$22,640
Greeley County	2,356	35.7%	100.0%	35.7%	4.1	$26,159
Hall County	61,353	99.8%	100.0%	99.8%	112.3	$27,421
Hamilton County	9,321	99.4%	100.0%	99.4%	17.2	$32,086
Harlan County	3,380	75.6%	100.0%	75.6%	6.1	$27,421
Hayes County	916	87.7%	100.0%	87.7%	1.3	$26,369
Hitchcock County	2,762	97.4%	100.0%	97.4%	3.9	$26,917
Holt County	10,067	80.7%	100.0%	80.7%	4.2	$29,975
Hooker County	682	94.1%	100.0%	94.1%	0.9	$25,791
Howard County	6,445	81.2%	100.0%	81.2%	11.3	$26,651
Jefferson County	7,046	68.1%	99.9%	68.1%	12.4	$26,439
Johnson County	5,071	100.0%	100.0%	100.0%	13.5	$23,652
Kearney County	6,495	89.9%	100.0%	89.9%	12.6	$30,355
Keith County	8,034	94.6%	100.0%	94.6%	7.6	$28,410
Keya Paha County	806	96.5%	98.4%	94.9%	1.0	$31,406
Kimball County	3,632	97.1%	100.0%	97.1%	3.8	$23,870
Knox County	8,332	51.9%	99.0%	51.5%	7.5	$27,372

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Lancaster County	319,076	100.0%	100.0%	100.0%	381.0	$30,929
Lincoln County	34,914	94.3%	100.0%	94.3%	13.6	$30,073
Logan County	748	23.7%	100.0%	23.7%	1.3	$24,813
Loup County	663	84.6%	100.0%	84.6%	1.2	$28,299
Madison County	35,099	96.7%	100.0%	96.7%	61.3	$27,528
McPherson County	494	51.8%	100.0%	51.8%	0.6	$26,384
Merrick County	7,755	93.8%	100.0%	93.8%	16.0	$29,038
Morrill County	4,642	98.2%	100.0%	98.2%	3.3	$26,461
Nance County	3,519	80.7%	100.0%	80.7%	8.0	$29,711
Nemaha County	6,972	100.0%	100.0%	100.0%	17.1	$27,945
Nuckolls County	4,148	74.1%	100.0%	74.1%	7.2	$26,735
Otoe County	16,008	100.0%	100.0%	100.0%	26.0	$29,229
Pawnee County	2,613	89.0%	100.0%	89.0%	6.1	$26,609
Perkins County	2,891	95.9%	100.0%	95.9%	3.3	$33,749
Phelps County	9,034	93.1%	100.0%	93.1%	16.7	$30,814
Pierce County	7,148	81.3%	100.0%	81.3%	12.5	$29,509
Platte County	33,470	98.4%	100.0%	98.4%	49.7	$29,847
Polk County	5,213	99.4%	100.0%	99.4%	11.9	$30,403
Red Willow County	10,724	98.9%	100.0%	98.9%	15.0	$25,456
Richardson County	7,865	99.6%	100.0%	99.6%	14.3	$28,965
Rock County	1,357	73.8%	100.0%	73.8%	1.3	$34,441
Saline County	14,224	99.4%	100.0%	99.4%	24.8	$22,943
Sarpy County	187,179	100.0%	100.0%	100.0%	783.2	$34,928
Saunders County	21,578	100.0%	100.0%	100.0%	28.8	$32,344
Scotts Bluff County	35,618	100.0%	100.0%	100.0%	48.2	$28,089
Seward County	17,284	100.0%	100.0%	100.0%	30.2	$30,694
Sheridan County	5,246	52.0%	99.7%	51.8%	2.1	$27,304
Sherman County	3,001	74.3%	100.0%	74.3%	5.3	$27,380
Sioux County	1,166	100.0%	100.0%	100.0%	0.6	$26,951
Stanton County	5,920	91.2%	100.0%	91.2%	13.8	$31,686
Thayer County	5,003	65.0%	100.0%	65.0%	8.7	$28,793
Thomas County	722	80.2%	100.0%	80.2%	1.0	$28,701
Thurston County	7,224	58.7%	100.0%	58.7%	18.4	$20,396
Valley County	4,158	78.1%	100.0%	78.1%	7.3	$28,587

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Washington County	20,729	100.0%	100.0%	100.0%	53.2	$34,178
Wayne County	9,385	73.3%	100.0%	73.3%	21.2	$27,192
Webster County	3,487	56.1%	100.0%	56.1%	6.1	$26,970
Wheeler County	783	77.9%	100.0%	77.9%	1.4	$27,832
York County	13,679	99.2%	100.0%	99.2%	23.9	$31,577
Nevada	**3,079,822**	**97.1%**	**99.9%**	**97.1%**	**28.1**	**$31,604**
Carson City	55,916	99.5%	100.0%	99.5%	386.5	$29,767
Churchill County	24,909	88.9%	99.4%	88.9%	5.1	$26,606
Clark County	2,266,703	99.4%	100.0%	99.4%	287.2	$29,256
Douglas County	48,905	96.5%	100.0%	96.5%	68.9	$36,390
Elko County	52,460	78.4%	98.6%	78.4%	3.1	$33,091
Esmeralda County	873	23.3%	98.2%	22.8%	0.2	$24,713
Eureka County	2,029	6.2%	98.1%	6.2%	0.5	$34,590
Humboldt County	16,831	90.7%	98.9%	90.7%	1.7	$30,516
Lander County	5,532	0.2%	96.9%	0.2%	1.0	$33,329
Lincoln County	5,183	87.0%	95.9%	84.5%	0.5	$25,304
Lyon County	57,509	82.3%	99.9%	82.3%	28.7	$26,855
Mineral County	4,505	71.5%	98.0%	71.5%	1.2	$22,897
Nye County	46,522	85.9%	98.5%	85.9%	2.6	$25,092
Pershing County	6,725	17.7%	98.1%	17.5%	1.1	$19,330
Storey County	4,121	69.1%	100.0%	69.1%	15.7	$35,887
Washoe County	471,519	97.2%	99.7%	97.2%	74.8	$33,546
White Pine County	9,580	0.9%	99.3%	0.9%	1.1	$26,412
New Hampshire	**1,359,706**	**96.8%**	**99.9%**	**96.7%**	**151.9**	**$39,521**
Belknap County	61,303	97.3%	100.0%	97.3%	153.2	$35,382
Carroll County	48,910	97.7%	100.0%	97.7%	52.5	$36,033
Cheshire County	76,085	86.4%	100.0%	86.4%	107.7	$34,136
Coos County	31,563	89.2%	98.5%	88.2%	17.6	$26,535
Grafton County	89,885	94.0%	100.0%	94.0%	52.6	$36,619
Hillsborough County	417,022	98.2%	100.0%	98.2%	476.0	$39,478
Merrimack County	151,391	97.8%	100.0%	97.8%	162.1	$36,148
Rockingham County	309,768	99.0%	99.9%	98.9%	445.9	$45,242
Strafford County	130,633	98.4%	100.0%	98.4%	354.0	$34,161
Sullivan County	43,146	86.8%	100.0%	86.8%	80.3	$31,668

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
New Jersey	**8,882,185**	**98.5%**	**100.0%**	**98.5%**	**1,207.8**	**$42,815**
Atlantic County	263,670	97.9%	99.9%	97.8%	474.5	$31,366
Bergen County	932,202	99.6%	100.0%	99.6%	4,000.7	$48,426
Burlington County	445,349	98.5%	100.0%	98.5%	557.7	$41,517
Camden County	506,471	98.8%	100.0%	98.8%	2,289.0	$34,280
Cape May County	92,039	98.6%	99.9%	98.5%	366.1	$38,496
Cumberland County	149,527	96.9%	100.0%	96.9%	309.1	$23,946
Essex County	798,975	98.6%	100.0%	98.6%	6,330.4	$37,141
Gloucester County	291,636	99.0%	100.0%	99.0%	905.7	$37,888
Hudson County	672,391	98.7%	100.0%	98.7%	14,556.8	$38,147
Hunterdon County	124,371	99.0%	100.0%	99.0%	290.7	$54,984
Mercer County	367,430	97.7%	100.0%	97.7%	1,636.2	$42,155
Middlesex County	825,062	96.7%	100.0%	96.7%	2,670.8	$38,140
Monmouth County	618,795	99.0%	100.0%	99.0%	1,320.0	$48,959
Morris County	491,845	96.9%	100.0%	96.9%	1,068.8	$55,826
Ocean County	607,181	98.6%	99.9%	98.5%	965.6	$34,784
Passaic County	501,826	99.3%	100.0%	99.3%	2,718.6	$30,800
Salem County	62,385	97.4%	100.0%	97.4%	188.0	$32,526
Somerset County	328,934	99.3%	100.0%	99.3%	1,089.9	$54,393
Sussex County	140,488	99.7%	100.0%	99.7%	270.7	$42,639
Union County	556,341	99.3%	100.0%	99.3%	5,409.0	$40,201
Warren County	105,267	98.9%	100.0%	98.9%	294.9	$38,132
New Mexico	**2,096,141**	**87.1%**	**99.6%**	**87.0%**	**17.3**	**$26,529**
Bernalillo County	679,121	99.0%	100.0%	99.0%	585.0	$29,415
Catron County	3,527	8.3%	68.8%	7.7%	0.5	$20,767
Chaves County	64,615	91.6%	100.0%	91.6%	10.7	$21,356
Cibola County	26,675	67.6%	100.0%	67.6%	5.9	$18,514
Colfax County	11,941	26.4%	100.0%	26.4%	3.2	$22,293
Curry County	48,954	91.8%	100.0%	91.8%	34.8	$23,729
De Baca County	1,748	81.2%	100.0%	81.2%	0.8	$19,215
Doña Ana County	217,517	84.6%	100.0%	84.6%	57.1	$21,300
Eddy County	58,458	84.7%	100.0%	84.7%	14.0	$28,957
Grant County	26,998	85.6%	99.9%	85.6%	6.8	$24,913
Guadalupe County	4,300	68.3%	100.0%	68.3%	1.4	$17,930

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Harding County	625	68.6%	100.0%	68.6%	0.3	$32,424
Hidalgo County	4,198	7.1%	98.8%	6.5%	1.2	$20,275
Lea County	71,066	93.2%	100.0%	93.2%	16.2	$24,879
Lincoln County	19,572	86.5%	100.0%	86.5%	4.1	$26,534
Los Alamos County	19,369	99.4%	100.0%	99.4%	177.4	$56,410
Luna County	23,709	58.1%	100.0%	58.1%	8.0	$16,496
McKinley County	71,367	51.4%	99.9%	51.4%	13.1	$15,278
Mora County	4,521	63.5%	96.8%	62.9%	2.3	$17,689
Otero County	67,490	78.9%	97.0%	78.8%	10.2	$22,477
Quay County	8,253	62.3%	100.0%	62.3%	2.9	$18,637
Rio Arriba County	38,921	86.2%	97.9%	85.0%	6.6	NA
Roosevelt County	18,500	81.0%	100.0%	81.0%	7.6	$19,849
San Juan County	123,958	78.4%	99.9%	78.4%	22.5	$23,206
San Miguel County	27,277	49.4%	98.7%	49.3%	5.8	$20,285
Sandoval County	146,745	91.7%	99.9%	91.6%	39.5	$27,549
Santa Fe County	150,357	98.1%	100.0%	98.1%	78.7	$37,080
Sierra County	10,791	82.1%	98.3%	80.9%	2.6	$25,389
Socorro County	16,637	4.5%	99.8%	4.5%	2.5	$17,464
Taos County	32,723	78.3%	91.4%	72.3%	14.9	$23,642
Torrance County	15,461	44.4%	100.0%	44.4%	4.6	$20,072
Union County	4,059	76.4%	100.0%	76.4%	1.1	$23,968
Valencia County	76,688	86.5%	100.0%	86.5%	71.9	$21,934
New York	**19,453,556**	**98.7%**	**100.0%**	**98.7%**	**412.8**	**$38,884**
Albany County	305,506	99.7%	100.0%	99.7%	584.4	$36,454
Allegany County	46,091	76.7%	99.9%	76.7%	44.8	$23,030
Bronx County	1,418,207	98.2%	100.0%	98.2%	33,689.6	$20,850
Broome County	190,488	99.1%	100.0%	99.1%	269.9	$27,744
Cattaraugus County	76,117	82.1%	100.0%	82.1%	58.2	$24,628
Cayuga County	76,576	96.9%	100.0%	96.9%	110.7	$29,022
Chautauqua County	126,903	97.8%	100.0%	97.8%	119.7	$24,825
Chemung County	83,456	98.0%	100.0%	98.0%	204.9	$28,115
Chenango County	47,207	95.7%	98.5%	94.5%	52.8	$26,717
Clinton County	80,485	93.5%	99.8%	93.4%	77.5	$26,772
Columbia County	59,461	99.2%	100.0%	99.2%	93.7	$35,581

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Cortland County	47,581	95.8%	100.0%	95.8%	95.4	$26,979
Delaware County	44,135	97.7%	98.8%	96.7%	30.6	$26,629
Dutchess County	294,217	97.8%	100.0%	97.8%	369.8	$38,048
Erie County	918,702	99.8%	100.0%	99.8%	881.1	$32,347
Essex County	36,885	93.9%	98.6%	92.8%	20.6	$30,273
Franklin County	50,022	95.4%	99.3%	95.1%	30.7	$25,491
Fulton County	53,383	96.7%	99.5%	96.3%	107.7	$26,875
Genesee County	57,280	95.9%	100.0%	95.9%	116.2	$29,465
Greene County	47,188	98.3%	99.7%	98.0%	72.9	$27,271
Hamilton County	4,416	85.3%	93.4%	80.5%	2.6	$25,918
Herkimer County	61,319	93.6%	99.7%	93.4%	43.4	$26,151
Jefferson County	109,834	98.5%	100.0%	98.5%	86.6	$25,884
Kings County	2,559,903	99.8%	100.0%	99.8%	36,148.8	$31,984
Lewis County	26,296	85.5%	99.8%	85.5%	20.6	$26,169
Livingston County	62,914	90.7%	100.0%	90.7%	99.6	$27,073
Madison County	70,940	94.2%	100.0%	94.2%	108.3	$28,925
Monroe County	741,770	100.0%	100.0%	100.0%	1,128.7	$32,502
Montgomery County	49,221	97.9%	100.0%	97.9%	122.1	$25,427
Nassau County	1,356,924	99.3%	100.0%	99.3%	4,765.9	$49,211
New York County	1,628,706	100.0%	100.0%	100.0%	71,344.7	$72,832
Niagara County	209,281	99.3%	100.0%	99.3%	400.6	$29,824
Oneida County	228,671	97.1%	100.0%	97.1%	188.6	$28,548
Onondaga County	460,528	99.9%	100.0%	99.9%	591.6	$32,678
Ontario County	109,777	99.4%	100.0%	99.4%	170.4	$35,121
Orange County	384,937	98.8%	100.0%	98.8%	474.2	$33,472
Orleans County	40,352	97.5%	100.0%	97.5%	103.1	$25,261
Oswego County	117,124	99.5%	100.0%	99.5%	123.1	$27,217
Otsego County	59,493	91.7%	99.6%	91.4%	59.4	$27,680
Putnam County	98,320	98.9%	100.0%	98.9%	426.9	$45,905
Queens County	2,253,858	100.0%	100.0%	100.0%	20,766.7	$30,289
Rensselaer County	158,714	100.0%	100.0%	100.0%	243.3	$34,280
Richmond County	476,143	100.0%	100.0%	100.0%	8,157.3	$34,987
Rockland County	325,789	98.7%	100.0%	98.7%	1,877.2	$38,076
Saratoga County	229,863	99.9%	99.6%	99.5%	283.8	$41,709

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Schenectady County	155,299	100.0%	100.0%	100.0%	759.3	$31,412
Schoharie County	30,999	99.1%	99.7%	98.9%	49.9	$28,712
Schuyler County	17,807	97.4%	100.0%	97.4%	54.2	$26,484
Seneca County	34,016	99.6%	100.0%	99.6%	105.1	$27,366
St. Lawrence County	107,740	95.4%	99.9%	95.3%	40.2	$24,473
Steuben County	95,379	90.0%	100.0%	90.0%	68.6	$28,600
Suffolk County	1,476,601	96.5%	100.0%	96.5%	1,619.0	$42,204
Sullivan County	75,432	99.5%	100.0%	99.5%	77.9	$29,292
Tioga County	48,203	96.4%	100.0%	96.4%	92.9	$31,330
Tompkins County	102,180	98.6%	100.0%	98.6%	215.3	$31,464
Ulster County	177,573	99.5%	99.5%	99.0%	158.0	$33,879
Warren County	63,944	96.2%	99.2%	95.8%	73.8	$33,605
Washington County	61,204	97.7%	100.0%	97.7%	73.6	$27,156
Wayne County	89,918	96.4%	100.0%	96.4%	148.9	$29,028
Westchester County	967,506	98.7%	100.0%	98.7%	2,247.4	$54,572
Wyoming County	39,859	85.4%	100.0%	85.4%	67.2	$27,150
Yates County	24,913	93.3%	100.0%	93.3%	73.7	$27,512
North Carolina	**10,487,714**	**95.5%**	**99.9%**	**95.4%**	**215.7**	**$30,737**
Alamance County	169,500	98.8%	100.0%	98.8%	399.8	$26,215
Alexander County	37,497	98.9%	100.0%	98.9%	144.2	$24,452
Alleghany County	11,137	99.8%	98.8%	98.6%	47.4	$21,244
Anson County	24,446	89.4%	100.0%	89.4%	46.0	$20,124
Ashe County	27,203	99.6%	96.3%	95.9%	63.8	$24,039
Avery County	17,557	98.1%	99.8%	97.9%	71.1	$20,253
Beaufort County	46,994	86.4%	100.0%	86.4%	56.8	$26,233
Bertie County	18,947	74.4%	100.0%	74.4%	27.1	$20,430
Bladen County	32,722	71.9%	100.0%	71.9%	37.4	$20,803
Brunswick County	142,818	97.8%	99.9%	97.7%	168.6	$31,204
Buncombe County	261,188	99.2%	100.0%	99.2%	397.7	$31,439
Burke County	90,485	98.8%	100.0%	98.8%	178.4	$23,466
Cabarrus County	216,443	99.5%	100.0%	99.5%	598.3	$31,050
Caldwell County	82,177	99.5%	99.9%	99.4%	174.3	$22,945
Camden County	10,867	93.4%	100.0%	93.4%	45.2	$26,951
Carteret County	69,473	99.8%	99.9%	99.7%	137.2	$32,005

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Caswell County	22,604	57.3%	100.0%	57.3%	53.2	$22,982
Catawba County	159,545	99.5%	100.0%	99.5%	400.1	$26,950
Chatham County	74,469	83.5%	100.0%	83.5%	109.2	$39,299
Cherokee County	28,612	83.6%	97.2%	82.8%	62.8	$22,754
Chowan County	13,943	97.1%	100.0%	97.1%	80.8	$24,084
Clay County	11,231	81.8%	99.2%	81.4%	52.3	$26,590
Cleveland County	97,946	96.8%	100.0%	96.8%	211.0	$21,920
Columbus County	55,508	84.1%	100.0%	84.1%	59.2	$22,081
Craven County	102,139	90.2%	100.0%	90.2%	144.1	$28,007
Cumberland County	335,505	99.5%	100.0%	99.5%	514.3	$24,301
Currituck County	27,762	97.3%	100.0%	97.3%	106.0	$30,017
Dare County	37,009	99.2%	99.4%	98.6%	96.5	$33,550
Davidson County	167,606	99.6%	100.0%	99.6%	303.3	$25,109
Davie County	42,846	99.6%	100.0%	99.6%	162.2	$29,613
Duplin County	58,741	69.7%	100.0%	69.7%	72.0	$19,455
Durham County	321,461	99.3%	100.0%	99.3%	1,124.1	$34,063
Edgecombe County	51,472	84.6%	100.0%	84.6%	101.9	$20,055
Forsyth County	382,288	100.0%	100.0%	100.0%	936.6	$29,921
Franklin County	69,674	86.6%	99.4%	86.6%	141.7	$26,273
Gaston County	224,526	99.8%	100.0%	99.8%	630.6	$26,069
Gates County	11,562	58.6%	100.0%	58.6%	34.0	$25,334
Graham County	8,441	66.1%	99.1%	66.1%	28.9	$19,323
Granville County	60,443	86.9%	100.0%	86.9%	113.7	$26,228
Greene County	21,068	26.4%	100.0%	26.4%	79.2	$18,339
Guilford County	537,170	99.8%	100.0%	99.8%	831.9	$29,708
Halifax County	50,010	82.6%	100.0%	82.6%	69.1	$21,016
Harnett County	135,968	95.2%	100.0%	95.2%	228.5	$23,011
Haywood County	62,317	83.5%	99.6%	83.5%	112.5	$29,453
Henderson County	117,415	92.6%	99.3%	91.9%	314.7	$29,860
Hertford County	23,677	82.6%	100.0%	82.6%	67.1	$18,918
Hoke County	55,233	89.6%	100.0%	89.6%	141.4	$20,656
Hyde County	4,937	12.1%	99.9%	12.1%	8.1	$18,433
Iredell County	181,801	98.3%	100.0%	98.3%	316.8	$32,006
Jackson County	43,938	60.6%	99.1%	60.4%	89.5	$24,073

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Johnston County	209,318	94.6%	100.0%	94.6%	264.5	$25,847
Jones County	9,419	50.8%	100.0%	50.8%	20.0	$21,539
Lee County	61,777	98.3%	100.0%	98.3%	242.3	$23,842
Lenoir County	55,949	82.4%	100.0%	82.4%	139.7	$22,361
Lincoln County	86,107	98.7%	100.0%	98.7%	289.0	$29,089
Macon County	35,857	69.4%	99.6%	69.3%	69.5	$28,429
Madison County	21,755	72.9%	88.7%	68.1%	48.4	$25,326
Martin County	22,440	68.9%	100.0%	68.9%	48.7	$23,269
McDowell County	45,755	83.1%	99.9%	83.1%	103.8	$22,725
Mecklenburg County	1,110,343	100.0%	100.0%	100.0%	2,119.6	$37,298
Mitchell County	14,964	89.9%	96.5%	86.8%	67.6	$23,907
Montgomery County	27,173	66.9%	100.0%	66.9%	55.3	$22,760
Moore County	100,874	90.5%	100.0%	90.5%	144.6	$33,432
Nash County	94,298	88.5%	100.0%	88.5%	174.5	$26,980
New Hanover County	234,469	99.8%	99.9%	99.8%	1,224.2	$32,629
Northampton County	19,483	80.8%	100.0%	80.8%	36.3	$20,538
Onslow County	197,937	97.1%	100.0%	97.1%	259.5	$23,783
Orange County	148,465	94.0%	100.0%	94.0%	373.1	$40,650
Pamlico County	12,726	86.0%	99.8%	85.8%	37.8	$27,026
Pasquotank County	39,824	99.9%	100.0%	99.9%	175.5	$23,699
Pender County	63,058	78.2%	99.9%	78.2%	72.5	$27,724
Perquimans County	13,462	87.8%	100.0%	87.8%	54.5	$25,809
Person County	39,490	98.9%	100.0%	98.9%	100.7	$25,922
Pitt County	180,741	90.3%	100.0%	90.3%	277.2	$25,722
Polk County	20,723	89.9%	100.0%	89.9%	87.1	$30,344
Randolph County	143,666	97.5%	100.0%	97.5%	183.6	$24,127
Richmond County	44,829	93.7%	100.0%	93.7%	94.6	$20,745
Robeson County	130,625	85.1%	100.0%	85.1%	137.6	$17,881
Rockingham County	91,009	97.1%	100.0%	97.1%	160.9	$23,604
Rowan County	142,084	98.2%	100.0%	98.2%	277.8	$25,117
Rutherford County	67,029	92.5%	99.9%	92.4%	118.8	$22,493
Sampson County	63,531	65.3%	100.0%	65.3%	67.2	$21,950
Scotland County	34,823	91.1%	100.0%	91.1%	109.2	$18,242

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Stanly County	62,805	98.5%	100.0%	98.5%	159.0	$24,671
Stokes County	45,591	97.5%	100.0%	97.5%	101.6	$25,091
Surry County	71,783	99.8%	99.8%	99.6%	134.9	$23,957
Swain County	14,271	67.1%	99.7%	67.1%	27.0	$20,984
Transylvania County	34,384	89.9%	98.0%	89.2%	90.8	$27,050
Tyrrell County	4,016	52.1%	100.0%	52.1%	10.3	$18,682
Union County	239,852	99.0%	100.0%	99.0%	379.8	$34,379
Vance County	44,535	95.0%	100.0%	95.0%	175.7	$23,211
Wake County	1,111,753	99.9%	100.0%	99.9%	1,331.1	$39,102
Warren County	19,731	67.1%	99.2%	67.0%	46.1	$22,461
Washington County	11,580	83.3%	100.0%	83.3%	33.3	$21,043
Watauga County	56,175	98.7%	99.4%	98.1%	179.7	$24,906
Wayne County	123,131	96.7%	100.0%	96.7%	222.6	$24,124
Wilkes County	68,412	99.4%	98.9%	98.2%	90.7	$23,745
Wilson County	81,801	98.3%	100.0%	98.3%	222.2	$24,273
Yadkin County	37,667	99.3%	100.0%	99.3%	112.5	$23,566
Yancey County	17,903	90.9%	96.1%	87.3%	57.3	$23,264
North Dakota	**761,707**	**96.8%**	**99.9%**	**96.8%**	**11.0**	**$34,848**
Adams County	2,216	100.0%	99.9%	99.9%	2.2	$33,652
Barnes County	10,415	95.5%	100.0%	95.5%	7.0	$33,868
Benson County	6,832	99.5%	100.0%	99.5%	4.9	$21,407
Billings County	928	53.7%	97.3%	52.0%	0.8	$45,523
Bottineau County	6,282	99.9%	100.0%	99.9%	3.8	$35,039
Bowman County	3,024	100.0%	100.0%	100.0%	2.6	$36,221
Burke County	2,115	81.8%	100.0%	81.8%	1.9	$35,806
Burleigh County	95,625	98.8%	100.0%	98.8%	58.6	$37,764
Cass County	181,923	96.3%	100.0%	96.3%	103.1	$36,655
Cavalier County	3,762	100.0%	99.7%	99.7%	2.5	$43,125
Dickey County	4,872	99.8%	100.0%	99.8%	4.3	$32,943
Divide County	2,264	95.9%	92.7%	90.2%	1.8	$45,190
Dunn County	4,423	98.2%	99.9%	98.1%	2.2	$44,492
Eddy County	2,287	100.0%	100.0%	100.0%	3.6	$34,565
Emmons County	3,241	100.0%	100.0%	100.0%	2.1	$29,417
Foster County	3,210	100.0%	100.0%	100.0%	5.1	$33,737

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Golden Valley County	1,761	60.7%	98.9%	60.1%	1.8	$32,590
Grand Forks County	69,451	98.8%	100.0%	98.8%	48.4	$31,052
Grant County	2,274	96.5%	99.3%	96.1%	1.4	$36,287
Griggs County	2,231	95.6%	100.0%	95.6%	3.1	$35,069
Hettinger County	2,499	100.0%	100.0%	100.0%	2.2	$32,474
Kidder County	2,480	100.0%	100.0%	100.0%	1.8	$32,364
LaMoure County	4,046	100.0%	100.0%	100.0%	3.5	$36,584
Logan County	1,850	100.0%	100.0%	100.0%	1.9	$33,396
McHenry County	5,745	99.9%	100.0%	99.9%	3.1	$37,626
McIntosh County	2,497	100.0%	100.0%	100.0%	2.6	$32,389
McKenzie County	15,014	72.8%	99.1%	72.1%	5.4	$36,798
McLean County	9,450	91.8%	100.0%	91.8%	4.5	$35,367
Mercer County	8,187	99.9%	100.0%	99.9%	7.8	$38,298
Morton County	31,363	96.9%	100.0%	96.9%	16.3	$39,300
Mountrail County	10,218	86.3%	100.0%	86.3%	5.6	$37,602
Nelson County	2,878	100.0%	100.0%	100.0%	2.9	$33,360
Oliver County	1,959	99.7%	100.0%	99.7%	2.7	$33,849
Pembina County	6,801	100.0%	100.0%	100.0%	6.1	$36,251
Pierce County	3,975	100.0%	100.0%	100.0%	3.9	$28,008
Ramsey County	11,518	100.0%	100.0%	100.0%	9.7	$35,059
Ransom County	5,218	99.4%	100.0%	99.4%	6.1	$34,691
Renville County	2,327	98.8%	100.0%	98.8%	2.7	$33,635
Richland County	16,177	99.8%	100.0%	99.8%	11.3	$30,820
Rolette County	14,176	98.9%	99.9%	98.8%	15.7	$19,295
Sargent County	3,895	100.0%	100.0%	100.0%	4.5	$37,039
Sheridan County	1,315	99.8%	100.0%	99.8%	1.4	$32,559
Sioux County	4,230	96.7%	99.4%	96.5%	3.9	$16,706
Slope County	750	98.3%	99.7%	98.3%	0.6	$37,340
Stark County	31,489	98.1%	100.0%	98.1%	23.6	$37,897
Steele County	1,890	96.0%	100.0%	96.0%	2.7	$39,403
Stutsman County	20,704	98.0%	100.0%	98.0%	9.3	$32,001
Towner County	2,189	86.9%	100.0%	86.9%	2.1	$36,217
Traill County	8,036	98.0%	100.0%	98.0%	9.3	$32,712
Walsh County	10,641	97.7%	100.0%	97.7%	8.3	$31,366

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Ward County	67,641	97.6%	100.0%	97.6%	33.6	$34,382
Wells County	3,834	100.0%	100.0%	100.0%	3.0	$34,602
Williams County	37,579	94.8%	99.9%	94.7%	18.1	$43,824
Ohio	**11,688,798**	**97.2%**	**100.0%**	**97.2%**	**286.1**	**$31,293**
Adams County	27,698	74.4%	100.0%	74.4%	47.4	$21,543
Allen County	102,351	98.4%	100.0%	98.4%	254.3	$25,662
Ashland County	53,484	100.0%	100.0%	100.0%	126.5	$25,471
Ashtabula County	97,241	93.2%	99.9%	93.1%	138.5	$22,817
Athens County	65,327	77.3%	99.9%	77.3%	129.7	$20,745
Auglaize County	45,656	96.0%	100.0%	96.0%	113.7	$29,908
Belmont County	67,006	89.5%	100.0%	89.5%	125.9	$26,106
Brown County	43,432	86.4%	100.0%	86.4%	88.6	$25,637
Butler County	383,131	99.8%	100.0%	99.8%	820.3	$30,777
Carroll County	26,914	68.4%	100.0%	68.4%	68.2	$28,421
Champaign County	38,885	92.3%	100.0%	92.3%	90.7	$26,515
Clark County	134,083	99.7%	100.0%	99.7%	337.3	$25,948
Clermont County	206,428	99.5%	100.0%	99.5%	456.6	$32,900
Clinton County	41,968	82.0%	100.0%	82.0%	102.7	$26,861
Columbiana County	101,883	84.4%	100.0%	84.4%	191.5	$25,853
Coshocton County	36,600	73.2%	99.6%	73.2%	64.9	$22,471
Crawford County	41,494	99.6%	100.0%	99.6%	103.3	$24,513
Cuyahoga County	1,235,072	99.5%	100.0%	99.5%	2,701.4	$31,804
Darke County	51,113	95.1%	100.0%	95.1%	85.5	$26,262
Defiance County	38,087	100.0%	100.0%	100.0%	92.6	$28,491
Delaware County	209,138	99.4%	100.0%	99.4%	472.0	$47,183
Erie County	74,266	100.0%	99.9%	99.9%	295.2	$31,677
Fairfield County	157,565	97.8%	100.0%	97.8%	312.4	$31,136
Fayette County	28,525	87.7%	100.0%	87.7%	70.2	$24,931
Franklin County	1,316,743	100.0%	100.0%	100.0%	2,474.2	$32,552
Fulton County	42,126	100.0%	100.0%	100.0%	103.9	$28,411
Gallia County	29,898	88.3%	99.6%	88.1%	64.1	$22,588
Geauga County	93,649	93.6%	100.0%	93.6%	234.0	$42,149
Greene County	168,936	98.1%	100.0%	98.1%	408.3	$34,682
Guernsey County	38,875	82.8%	100.0%	82.7%	74.4	$23,599

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Hamilton County	817,473	100.0%	100.0%	100.0%	2,013.9	$34,125
Hancock County	75,783	98.0%	100.0%	98.0%	142.6	$30,794
Hardin County	31,365	97.2%	100.0%	97.2%	66.7	$22,329
Harrison County	15,040	65.4%	100.0%	65.4%	37.4	$24,108
Henry County	27,006	100.0%	100.0%	100.0%	64.9	$28,328
Highland County	43,161	74.6%	99.9%	74.5%	78.0	$22,624
Hocking County	28,264	71.1%	99.9%	71.1%	67.1	$24,138
Holmes County	43,960	100.0%	99.8%	99.8%	104.0	$22,923
Huron County	58,266	100.0%	100.0%	100.0%	118.5	$25,375
Jackson County	32,413	85.8%	100.0%	85.8%	77.1	$22,117
Jefferson County	65,325	92.8%	100.0%	92.8%	160.0	$25,658
Knox County	62,320	78.3%	100.0%	78.3%	118.6	$25,589
Lake County	230,149	99.9%	100.0%	99.9%	1,011.7	$33,737
Lawrence County	59,463	86.4%	97.9%	86.2%	131.2	$23,692
Licking County	176,859	95.4%	100.0%	95.4%	259.1	$30,338
Logan County	45,671	94.6%	100.0%	94.6%	99.6	$27,840
Lorain County	309,831	100.0%	100.0%	100.0%	630.9	$29,777
Lucas County	428,348	98.9%	100.0%	98.9%	1,256.7	$28,361
Madison County	44,730	94.2%	100.0%	94.2%	96.0	$28,331
Mahoning County	228,683	98.7%	100.0%	98.7%	555.6	$27,429
Marion County	65,093	99.4%	100.0%	99.4%	161.2	$22,878
Medina County	179,737	100.0%	100.0%	100.0%	426.6	$35,979
Meigs County	22,907	67.1%	99.6%	66.9%	53.3	$23,897
Mercer County	41,166	100.0%	100.0%	100.0%	89.0	$28,513
Miami County	106,983	99.3%	100.0%	99.3%	263.1	$29,703
Monroe County	13,654	39.4%	99.3%	39.4%	30.0	$25,141
Montgomery County	531,687	99.8%	100.0%	99.8%	1,152.0	$28,807
Morgan County	14,508	60.9%	99.4%	60.9%	34.8	$22,454
Morrow County	35,323	80.8%	100.0%	80.8%	87.0	$27,212
Muskingum County	86,215	89.3%	99.7%	89.1%	129.7	$24,080
Noble County	14,424	66.5%	99.6%	66.5%	36.2	$24,616
Ottawa County	40,525	100.0%	99.5%	99.5%	159.0	$33,081
Paulding County	18,672	100.0%	100.0%	100.0%	44.8	$25,918
Perry County	36,033	71.8%	100.0%	71.8%	88.3	$22,659

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Pickaway County	58,444	93.4%	100.0%	93.4%	116.6	$26,515
Pike County	27,772	87.8%	99.9%	87.7%	63.1	$22,301
Portage County	162,466	99.3%	100.0%	99.3%	333.3	$29,439
Preble County	40,882	98.8%	100.0%	98.8%	96.4	$27,031
Putnam County	33,780	100.0%	100.0%	100.0%	70.0	$30,064
Richland County	121,154	99.8%	100.0%	99.8%	244.6	$24,545
Ross County	76,666	94.4%	100.0%	94.4%	111.2	$23,756
Sandusky County	58,518	100.0%	100.0%	100.0%	143.3	$26,256
Scioto County	75,314	90.5%	99.6%	90.5%	123.4	$23,042
Seneca County	55,178	96.7%	100.0%	96.7%	100.1	$25,555
Shelby County	48,590	97.7%	100.0%	97.7%	119.2	$29,008
Stark County	370,606	99.5%	100.0%	99.5%	644.2	$28,434
Summit County	541,013	100.0%	100.0%	100.0%	1,310.8	$32,055
Trumbull County	197,974	97.5%	100.0%	97.5%	320.2	$26,116
Tuscarawas County	91,987	89.3%	100.0%	89.3%	162.1	$26,034
Union County	58,987	99.5%	100.0%	99.5%	136.6	$34,691
Van Wert County	28,275	100.0%	100.0%	100.0%	69.1	$26,698
Vinton County	13,085	66.1%	99.9%	66.1%	31.7	$20,823
Warren County	234,596	98.3%	100.0%	98.3%	584.6	$39,448
Washington County	59,911	78.1%	99.4%	78.1%	94.8	$27,860
Wayne County	115,710	97.8%	100.0%	97.8%	208.5	$26,822
Williams County	36,692	100.0%	100.0%	100.0%	87.2	$25,428
Wood County	130,815	100.0%	100.0%	100.0%	211.9	$31,324
Wyandot County	21,772	95.3%	100.0%	95.3%	53.5	$27,037
Oklahoma	**3,954,291**	**87.8%**	**99.9%**	**87.8%**	**57.6**	**$28,011**
Adair County	22,194	76.3%	100.0%	76.3%	38.7	$16,851
Alfalfa County	5,702	94.4%	100.0%	94.4%	6.6	$27,871
Atoka County	13,758	52.6%	100.0%	52.6%	14.1	$20,733
Beaver County	5,311	80.3%	100.0%	80.2%	2.9	$24,610
Beckham County	21,858	72.1%	100.0%	72.1%	24.2	$24,049
Blaine County	9,429	82.6%	100.0%	82.6%	10.2	$25,708
Bryan County	47,991	96.6%	100.0%	96.6%	53.1	$23,453
Caddo County	28,762	53.0%	100.0%	53.0%	22.5	$22,062
Canadian County	148,237	88.6%	100.0%	88.6%	165.3	$30,545

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Carter County	48,111	100.0%	100.0%	100.0%	58.5	$25,110
Cherokee County	48,657	79.9%	100.0%	79.9%	64.9	$20,575
Choctaw County	14,668	36.5%	100.0%	36.5%	19.0	$21,329
Cimarron County	2,137	74.3%	99.0%	73.7%	1.2	$27,929
Cleveland County	281,657	94.8%	100.0%	94.8%	522.8	$30,507
Coal County	5,495	78.5%	100.0%	78.5%	10.6	$24,399
Comanche County	120,747	94.7%	100.0%	94.7%	112.9	$26,149
Cotton County	5,666	58.3%	100.0%	58.3%	9.0	$22,596
Craig County	14,142	99.5%	100.0%	99.5%	18.6	$20,704
Creek County	71,522	67.8%	100.0%	67.8%	75.3	$25,150
Custer County	29,003	78.8%	100.0%	78.8%	29.3	$25,569
Delaware County	43,007	90.8%	100.0%	90.8%	58.3	$22,976
Dewey County	4,891	32.7%	100.0%	32.7%	4.9	$27,432
Ellis County	3,859	73.7%	99.8%	73.7%	3.1	$27,120
Garfield County	61,054	86.8%	100.0%	86.8%	57.7	$26,454
Garvin County	27,711	78.4%	100.0%	78.4%	34.5	$23,020
Grady County	55,828	68.8%	100.0%	68.8%	50.7	$28,577
Grant County	4,333	89.9%	100.0%	89.9%	4.3	$29,060
Greer County	5,712	50.6%	100.0%	50.6%	8.9	$18,292
Harmon County	2,653	88.1%	100.0%	88.1%	4.9	$22,588
Harper County	3,688	83.8%	100.0%	83.8%	3.5	$24,714
Haskell County	12,627	39.4%	100.0%	39.4%	21.9	$21,280
Hughes County	13,279	53.9%	100.0%	53.9%	16.5	$20,438
Jackson County	24,530	79.8%	100.0%	79.8%	30.6	$23,226
Jefferson County	6,002	66.5%	100.0%	66.5%	7.9	$19,155
Johnston County	10,949	94.0%	100.0%	94.0%	17.0	$20,930
Kay County	43,538	94.7%	100.0%	94.7%	47.3	$24,853
Kingfisher County	15,765	92.6%	100.0%	92.6%	17.6	$32,049
Kiowa County	8,708	73.3%	100.0%	73.3%	8.6	$20,888
Latimer County	10,073	52.0%	97.3%	50.9%	13.9	$23,842
Le Flore County	49,853	55.2%	99.8%	55.2%	31.4	$20,656
Lincoln County	34,877	91.7%	100.0%	91.7%	36.6	$24,454
Logan County	48,002	100.0%	100.0%	100.0%	64.5	$29,387
Love County	10,252	100.0%	100.0%	100.0%	19.9	$21,704

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Major County	7,629	35.2%	100.0%	35.2%	8.0	$28,801
Marshall County	16,931	100.0%	100.0%	100.0%	45.6	$23,872
Mayes County	41,100	95.2%	100.0%	95.2%	62.7	$23,861
McClain County	40,467	85.5%	100.0%	85.5%	70.9	$29,797
McCurtain County	32,832	56.5%	96.4%	55.6%	17.7	$19,692
McIntosh County	19,596	40.9%	100.0%	40.9%	31.7	$22,922
Murray County	14,072	100.0%	100.0%	100.0%	33.8	$26,837
Muskogee County	67,997	67.7%	100.0%	67.7%	83.9	$22,775
Noble County	11,131	93.0%	100.0%	93.0%	15.2	$27,828
Nowata County	10,076	85.0%	100.0%	85.0%	17.8	$22,147
Okfuskee County	11,993	36.6%	100.0%	36.6%	19.4	$17,281
Oklahoma County	797,404	96.9%	100.0%	96.9%	1,125.0	$30,398
Okmulgee County	38,465	54.2%	100.0%	54.2%	55.2	$22,400
Osage County	46,963	73.7%	99.9%	73.7%	20.9	$24,363
Ottawa County	31,127	100.0%	100.0%	100.0%	66.1	$20,209
Pawnee County	16,376	34.9%	100.0%	34.9%	28.8	$23,916
Payne County	81,784	100.0%	100.0%	100.0%	119.4	$23,589
Pittsburg County	43,654	74.8%	100.0%	74.8%	33.4	$24,750
Pontotoc County	38,284	93.4%	100.0%	93.4%	53.1	$24,683
Pottawatomie County	72,592	89.9%	100.0%	89.9%	92.2	$23,155
Pushmataha County	11,096	26.0%	79.6%	21.3%	7.9	$23,346
Roger Mills County	3,583	12.7%	100.0%	12.7%	3.1	$26,431
Rogers County	92,449	97.8%	100.0%	97.8%	136.8	$30,886
Seminole County	24,258	61.2%	100.0%	61.2%	38.3	$20,460
Sequoyah County	41,568	35.4%	100.0%	35.4%	61.7	$20,020
Stephens County	43,143	95.2%	100.0%	95.2%	49.6	$25,374
Texas County	19,983	87.9%	100.0%	87.9%	9.8	$22,120
Tillman County	7,250	90.4%	100.0%	90.4%	8.3	$21,673
Tulsa County	651,521	98.3%	100.0%	98.3%	1,142.5	$30,894
Wagoner County	81,282	89.0%	100.0%	89.0%	144.7	$28,286
Washington County	51,527	91.9%	100.0%	91.9%	124.0	$30,267
Washita County	10,916	67.5%	100.0%	67.5%	10.9	$26,744
Woods County	8,793	90.6%	100.0%	90.6%	6.8	$27,232
Woodward County	20,211	34.4%	100.0%	34.4%	16.3	$28,248

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Oregon	**4,217,686**	**94.9%**	**99.6%**	**94.8%**	**43.9**	**$34,058**
Baker County	16,124	70.6%	97.9%	70.1%	5.3	$26,152
Benton County	93,053	99.5%	99.9%	99.4%	137.7	$32,297
Clackamas County	418,182	97.0%	99.8%	96.9%	223.6	$39,619
Clatsop County	40,224	82.4%	99.9%	82.4%	48.5	$28,750
Columbia County	52,354	80.7%	99.9%	80.7%	79.6	$29,317
Coos County	64,487	89.7%	99.2%	89.7%	40.4	$26,610
Crook County	24,403	91.6%	98.4%	91.6%	8.2	$25,128
Curry County	22,925	94.2%	98.9%	93.9%	14.1	$28,365
Deschutes County	197,682	97.4%	100.0%	97.4%	65.5	$34,187
Douglas County	110,977	93.0%	98.4%	92.8%	22.0	$25,602
Gilliam County	1,912	38.0%	99.8%	38.0%	1.6	$25,649
Grant County	7,199	57.7%	88.2%	57.3%	1.6	$26,029
Harney County	7,393	67.3%	97.7%	67.3%	0.7	$25,871
Hood River County	23,382	97.0%	100.0%	97.0%	44.8	$32,581
Jackson County	220,942	92.7%	98.6%	92.2%	79.4	$28,728
Jefferson County	24,657	97.3%	99.4%	97.2%	13.8	$22,492
Josephine County	87,486	88.5%	99.4%	88.5%	53.4	$24,763
Klamath County	68,236	84.3%	99.9%	84.3%	11.5	$24,296
Lake County	7,869	48.1%	98.9%	47.8%	1.0	$22,469
Lane County	382,062	94.0%	99.1%	93.9%	83.9	$28,070
Lincoln County	49,962	95.4%	98.1%	94.2%	51.0	$27,072
Linn County	129,749	97.5%	99.4%	97.4%	56.7	$25,781
Malheur County	30,571	95.2%	99.7%	95.1%	3.1	$18,700
Marion County	347,818	99.1%	99.8%	99.0%	294.2	$26,143
Morrow County	11,598	57.1%	99.8%	57.1%	5.7	$22,599
Multnomah County	812,854	97.9%	100.0%	97.9%	1,884.7	$36,868
Polk County	86,084	96.8%	99.2%	96.6%	116.2	$27,492
Sherman County	1,780	50.7%	100.0%	50.7%	2.2	$33,821
Tillamook County	27,036	91.7%	96.2%	90.9%	24.5	$27,122
Umatilla County	77,949	93.0%	99.9%	93.0%	24.2	$23,464
Union County	26,834	89.3%	99.9%	89.3%	13.2	$27,425
Wallowa County	7,208	90.5%	94.1%	88.9%	2.3	$28,960
Wasco County	26,682	85.1%	99.9%	85.1%	11.2	$26,249

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Washington County	601,580	97.1%	100.0%	97.1%	830.6	$37,657
Wheeler County	1,332	0.0%	74.7%	0.0%	0.8	$21,375
Yamhill County	107,100	85.2%	99.7%	85.2%	149.6	$29,141
Pennsylvania	**12,801,961**	**95.9%**	**100.0%**	**95.9%**	**286.1**	**$33,960**
Adams County	103,008	93.9%	100.0%	93.9%	198.6	$30,534
Allegheny County	1,216,045	99.4%	100.0%	99.4%	1,665.6	$36,907
Armstrong County	64,735	95.4%	99.9%	95.3%	99.1	$26,465
Beaver County	163,929	98.3%	100.0%	98.3%	377.1	$30,016
Bedford County	47,888	76.2%	99.2%	75.4%	47.3	$25,163
Berks County	421,164	98.0%	100.0%	98.0%	491.7	$30,187
Blair County	121,829	86.9%	99.8%	86.8%	231.7	$26,648
Bradford County	60,323	74.8%	99.5%	74.7%	52.6	$27,319
Bucks County	628,270	98.6%	100.0%	98.6%	1,039.7	$44,103
Butler County	187,853	96.3%	100.0%	96.3%	238.2	$36,383
Cambria County	130,192	93.7%	100.0%	93.7%	189.1	$25,779
Cameron County	4,447	94.8%	92.8%	90.2%	11.2	$25,898
Carbon County	64,182	97.5%	100.0%	97.5%	168.3	$26,867
Centre County	162,385	93.9%	99.9%	93.8%	146.3	$29,432
Chester County	524,985	98.9%	100.0%	98.9%	699.5	$48,225
Clarion County	38,438	85.5%	99.6%	85.1%	64.0	$24,293
Clearfield County	79,255	80.8%	100.0%	80.8%	69.2	$23,743
Clinton County	38,632	96.5%	99.9%	96.5%	43.5	$23,780
Columbia County	64,964	79.9%	100.0%	79.9%	134.5	$25,794
Crawford County	84,629	78.7%	100.0%	78.7%	83.6	$25,731
Cumberland County	253,369	92.6%	100.0%	92.6%	464.5	$36,012
Dauphin County	278,299	98.4%	100.0%	98.4%	530.0	$32,485
Delaware County	566,745	99.0%	100.0%	99.0%	3,082.8	$38,251
Elk County	29,910	96.2%	100.0%	96.2%	36.2	$28,476
Erie County	269,728	94.9%	100.0%	94.9%	337.5	$27,349
Fayette County	129,274	89.3%	100.0%	89.3%	163.6	$25,876
Forest County	7,247	72.3%	99.6%	72.1%	17.0	$15,360
Franklin County	155,027	92.0%	99.8%	92.0%	200.8	$29,748
Fulton County	14,530	60.3%	100.0%	60.3%	33.2	$26,082
Greene County	36,233	81.0%	97.2%	79.6%	62.9	$26,902

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Huntingdon County	45,144	82.8%	99.5%	82.6%	51.6	$24,159
Indiana County	84,073	81.7%	100.0%	81.7%	101.7	$25,276
Jefferson County	43,425	89.6%	100.0%	89.6%	66.6	$24,974
Juniata County	24,763	80.2%	99.4%	80.2%	63.3	$25,057
Lackawanna County	209,674	89.3%	100.0%	89.3%	456.7	$28,427
Lancaster County	545,723	96.6%	100.0%	96.6%	578.2	$30,778
Lawrence County	85,512	96.1%	100.0%	96.1%	238.7	$27,734
Lebanon County	141,793	97.5%	100.0%	97.5%	391.9	$28,560
Lehigh County	369,317	99.9%	100.0%	99.9%	1,070.0	$32,252
Luzerne County	317,417	97.0%	100.0%	97.0%	356.5	$27,919
Lycoming County	113,299	95.7%	99.7%	95.4%	92.2	$26,867
McKean County	40,625	87.0%	100.0%	87.0%	41.5	$25,517
Mercer County	109,424	91.3%	100.0%	91.3%	162.7	$26,561
Mifflin County	46,138	96.0%	99.9%	95.9%	112.2	$24,407
Monroe County	170,270	99.3%	100.0%	99.3%	279.9	$28,486
Montgomery County	830,902	99.0%	100.0%	99.0%	1,720.2	$46,776
Montour County	18,230	72.2%	100.0%	72.2%	140.0	$34,095
Northampton County	305,285	100.0%	100.0%	100.0%	825.8	$34,017
Northumberland County	90,843	87.3%	100.0%	87.3%	198.2	$25,506
Perry County	46,272	84.8%	100.0%	84.8%	83.9	$29,685
Philadelphia County	1,584,064	99.1%	100.0%	99.1%	11,812.4	$26,557
Pike County	55,809	98.5%	100.0%	98.5%	102.4	$33,111
Potter County	16,526	69.8%	99.5%	69.6%	15.3	$24,087
Schuylkill County	141,359	92.8%	100.0%	92.8%	181.5	$26,070
Snyder County	40,372	77.4%	100.0%	77.4%	122.8	$26,415
Somerset County	73,447	85.8%	100.0%	85.8%	68.4	$25,294
Sullivan County	6,066	58.1%	97.5%	57.4%	13.5	$28,665
Susquehanna County	40,328	60.3%	100.0%	60.3%	49.0	$29,630
Tioga County	40,591	90.0%	99.8%	89.8%	35.8	$26,059
Union County	44,920	93.7%	100.0%	93.6%	142.2	$25,606
Venango County	50,668	90.9%	100.0%	90.9%	75.1	$25,837
Warren County	39,191	75.2%	99.8%	75.2%	44.3	$27,593
Washington County	206,865	94.5%	100.0%	94.5%	241.4	$34,244

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Wayne County	51,361	64.9%	100.0%	64.9%	70.8	$26,570
Westmoreland County	348,899	98.1%	100.0%	98.1%	339.5	$32,916
Wyoming County	26,794	89.7%	99.7%	89.5%	67.4	$28,810
York County	449,057	99.6%	100.0%	99.6%	496.6	$31,468
Rhode Island	**1,059,354**	**98.6%**	**100.0%**	**98.6%**	**1,024.7**	**$34,999**
Bristol County	48,479	100.0%	100.0%	100.0%	2,006.2	$43,617
Kent County	164,290	98.6%	100.0%	98.5%	974.9	$38,039
Newport County	82,082	96.5%	100.0%	96.5%	801.7	$45,442
Providence County	638,926	98.9%	100.0%	98.9%	1,560.3	$30,356
Washington County	125,577	97.8%	100.0%	97.8%	381.4	$41,000
South Carolina	**5,148,558**	**91.3%**	**100.0%**	**91.3%**	**171.3**	**$28,957**
Abbeville County	24,527	96.1%	100.0%	96.1%	50.0	$21,185
Aiken County	170,872	70.2%	100.0%	70.2%	159.5	$27,526
Allendale County	8,688	31.3%	99.8%	31.3%	21.3	$14,744
Anderson County	202,555	95.2%	100.0%	95.2%	283.1	$25,807
Bamberg County	14,066	39.9%	100.0%	39.9%	35.8	$18,873
Barnwell County	20,866	53.1%	100.0%	53.1%	38.0	$19,620
Beaufort County	192,115	88.4%	100.0%	88.4%	333.4	$36,306
Berkeley County	227,856	94.5%	100.0%	94.5%	207.4	$28,331
Calhoun County	14,553	78.5%	100.0%	78.5%	38.2	$25,953
Charleston County	411,395	94.8%	100.0%	94.8%	449.1	$37,801
Cherokee County	57,299	87.3%	100.0%	87.3%	145.9	$21,432
Chester County	32,244	87.0%	100.0%	87.0%	55.5	$21,240
Chesterfield County	45,650	67.8%	100.0%	67.8%	57.1	$20,676
Clarendon County	33,745	93.8%	100.0%	93.8%	55.6	$20,967
Colleton County	37,677	88.2%	100.0%	88.2%	35.7	$21,003
Darlington County	66,618	88.7%	100.0%	88.7%	118.7	$21,587
Dillon County	30,479	76.9%	100.0%	76.9%	75.3	$16,473
Dorchester County	162,795	92.7%	100.0%	92.7%	284.0	$28,704
Edgefield County	27,259	67.8%	100.0%	67.8%	54.5	$25,410
Fairfield County	22,347	79.8%	100.0%	79.8%	32.6	$22,527
Florence County	138,292	95.1%	100.0%	95.1%	172.9	$25,149
Georgetown County	62,676	88.9%	100.0%	88.9%	77.0	$29,929
Greenville County	523,520	98.3%	100.0%	98.3%	666.8	$30,776

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Greenwood County	70,811	91.3%	100.0%	91.3%	155.7	$23,945
Hampton County	19,222	54.1%	100.0%	54.1%	34.3	$17,523
Horry County	354,079	99.8%	100.0%	99.8%	312.3	$26,917
Jasper County	30,073	63.1%	100.0%	63.1%	45.9	$22,406
Kershaw County	66,550	83.3%	100.0%	83.3%	91.6	$24,253
Lancaster County	98,009	87.4%	100.0%	87.4%	178.5	$29,271
Laurens County	67,493	91.0%	100.0%	91.0%	94.6	$21,743
Lee County	16,828	84.8%	100.0%	84.8%	41.0	$17,544
Lexington County	298,741	96.8%	100.0%	96.8%	427.4	$30,316
Marion County	30,657	70.8%	100.0%	70.8%	62.7	$19,992
Marlboro County	26,118	40.1%	100.0%	40.1%	54.4	$17,034
McCormick County	9,463	40.1%	99.7%	40.0%	26.3	$24,419
Newberry County	38,440	81.7%	100.0%	81.7%	61.0	$23,344
Oconee County	79,546	85.0%	100.0%	85.0%	127.0	$28,076
Orangeburg County	86,175	65.2%	100.0%	65.2%	77.9	$19,992
Pickens County	126,877	93.8%	100.0%	93.8%	255.6	$24,803
Richland County	415,759	97.6%	100.0%	97.6%	549.2	$29,010
Saluda County	20,473	60.2%	100.0%	60.2%	45.2	$22,174
Spartanburg County	319,773	96.0%	100.0%	96.0%	395.8	$26,072
Sumter County	106,718	96.9%	100.0%	96.9%	160.5	$22,272
Union County	27,316	79.6%	100.0%	79.6%	53.1	$22,372
Williamsburg County	30,368	82.8%	100.0%	82.8%	32.5	$18,454
York County	280,975	96.5%	100.0%	96.5%	412.8	$32,227
South Dakota	**884,578**	**95.0%**	**99.9%**	**94.9%**	**11.7**	**$29,953**
Aurora County	2,751	73.2%	100.0%	73.2%	3.9	$31,468
Beadle County	18,453	100.0%	100.0%	100.0%	14.7	$26,316
Bennett County	3,365	90.6%	100.0%	90.6%	2.8	$16,625
Bon Homme County	6,901	82.5%	100.0%	82.5%	12.2	$23,525
Brookings County	35,077	99.9%	100.0%	99.9%	44.3	$27,968
Brown County	38,839	100.0%	100.0%	100.0%	22.7	$31,977
Brule County	5,295	100.0%	100.0%	100.0%	6.5	$28,292
Buffalo County	1,962	100.0%	100.0%	100.0%	4.2	$11,471
Butte County	10,428	99.4%	100.0%	99.4%	4.6	$26,702
Campbell County	1,376	100.0%	100.0%	100.0%	1.9	$39,986

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Charles Mix County	9,292	55.1%	100.0%	55.1%	8.5	$21,787
Clark County	3,736	99.1%	100.0%	99.1%	3.9	$30,339
Clay County	14,070	93.9%	100.0%	93.9%	34.1	$26,230
Codington County	28,009	98.5%	100.0%	98.5%	40.7	$29,992
Corson County	4,086	83.4%	91.8%	76.8%	1.7	$15,984
Custer County	8,972	63.5%	99.9%	63.5%	5.8	$30,439
Davison County	19,775	100.0%	100.0%	100.0%	45.4	$29,342
Day County	5,424	99.8%	100.0%	99.8%	5.3	$28,873
Deuel County	4,351	99.9%	100.0%	99.9%	7.0	$29,281
Dewey County	5,892	94.6%	100.0%	94.6%	2.6	$16,967
Douglas County	2,921	83.2%	100.0%	83.2%	6.8	$29,458
Edmunds County	3,829	100.0%	100.0%	100.0%	3.4	$32,492
Fall River County	6,713	91.4%	99.7%	91.4%	3.9	$27,266
Faulk County	2,299	100.0%	100.0%	100.0%	2.3	$29,065
Grant County	7,052	77.6%	100.0%	77.6%	10.3	$31,453
Gregory County	4,185	91.8%	99.7%	91.5%	4.1	$27,579
Haakon County	1,899	92.4%	99.5%	91.9%	1.0	$24,426
Hamlin County	6,164	100.0%	100.0%	100.0%	12.2	$27,777
Hand County	3,191	100.0%	100.0%	100.0%	2.2	$33,865
Hanson County	3,451	100.0%	100.0%	100.0%	7.9	$25,039
Harding County	1,297	100.0%	99.7%	99.7%	0.5	$31,599
Hughes County	17,526	100.0%	100.0%	100.0%	23.6	$33,810
Hutchinson County	7,291	99.7%	100.0%	99.7%	9.0	$27,995
Hyde County	1,301	100.0%	100.0%	100.0%	1.5	$31,692
Jackson County	3,343	74.1%	100.0%	74.1%	1.8	$13,595
Jerauld County	2,013	100.0%	100.0%	100.0%	3.8	$38,650
Jones County	903	50.6%	100.0%	50.6%	0.9	$28,850
Kingsbury County	4,939	100.0%	100.0%	100.0%	5.9	$32,259
Lake County	12,797	100.0%	100.0%	100.0%	22.7	$31,574
Lawrence County	25,844	94.3%	99.9%	94.3%	32.3	$31,744
Lincoln County	61,090	95.6%	100.0%	95.6%	105.8	$39,797
Lyman County	3,781	93.4%	100.0%	93.4%	2.3	$22,097
Marshall County	4,935	98.3%	100.0%	98.3%	5.9	$31,307
McCook County	5,583	81.8%	100.0%	81.8%	9.7	$28,032

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
McPherson County	2,379	100.0%	100.0%	100.0%	2.1	$27,240
Meade County	28,332	100.0%	99.9%	99.8%	8.2	$28,654
Mellette County	2,061	58.0%	100.0%	58.0%	1.6	$13,538
Miner County	2,216	100.0%	100.0%	100.0%	3.9	$27,570
Minnehaha County	193,130	98.5%	100.0%	98.5%	239.3	$30,471
Moody County	6,576	97.1%	100.0%	97.1%	12.7	$29,142
Oglala Lakota County	14,155	72.6%	100.0%	72.6%	6.8	$10,148
Pennington County	113,774	95.5%	99.8%	95.5%	41.0	$30,518
Perkins County	2,865	98.1%	99.5%	97.6%	1.0	$33,065
Potter County	2,153	100.0%	100.0%	100.0%	2.5	$31,467
Roberts County	10,394	88.2%	100.0%	88.2%	9.4	$26,537
Sanborn County	2,344	100.0%	100.0%	100.0%	4.1	$32,404
Spink County	6,376	100.0%	100.0%	100.0%	4.2	$33,597
Stanley County	3,098	98.3%	100.0%	98.3%	2.1	$35,936
Sully County	1,391	100.0%	100.0%	100.0%	1.4	$42,276
Todd County	10,177	62.6%	100.0%	62.6%	7.3	$10,931
Tripp County	5,441	89.8%	100.0%	89.8%	3.4	$26,242
Turner County	8,384	86.3%	100.0%	86.3%	13.6	$29,465
Union County	15,926	93.7%	100.0%	93.7%	34.6	$40,699
Walworth County	5,435	100.0%	100.0%	100.0%	7.7	$31,302
Yankton County	22,814	92.7%	100.0%	92.7%	43.8	$31,986
Ziebach County	2,756	100.0%	99.4%	99.4%	1.4	$14,943
Tennessee	**6,828,841**	**93.7%**	**99.8%**	**93.5%**	**165.6**	**$29,284**
Anderson County	76,977	96.9%	98.8%	95.8%	228.3	$27,913
Bedford County	49,711	96.1%	100.0%	96.1%	105.0	$23,988
Benton County	16,160	72.0%	100.0%	71.9%	41.0	$21,374
Bledsoe County	15,064	53.8%	99.5%	53.6%	37.1	$23,453
Blount County	133,086	98.5%	99.7%	98.2%	238.2	$29,634
Bradley County	108,107	97.8%	100.0%	97.8%	328.8	$26,319
Campbell County	39,842	85.8%	98.7%	85.3%	83.0	$23,064
Cannon County	14,676	99.7%	100.0%	99.7%	55.2	$24,700
Carroll County	27,767	71.2%	100.0%	71.2%	46.3	$22,007
Carter County	56,391	97.1%	99.3%	96.6%	165.3	$21,963
Cheatham County	40,666	93.8%	100.0%	93.8%	134.5	$26,719

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Chester County	17,297	56.6%	100.0%	56.6%	60.5	$21,425
Claiborne County	31,959	95.7%	100.0%	95.7%	73.5	$20,753
Clay County	7,615	97.9%	89.4%	87.3%	32.2	$19,512
Cocke County	36,004	81.0%	96.4%	80.8%	82.9	$21,332
Coffee County	56,517	94.5%	100.0%	94.5%	131.8	$25,637
Crockett County	14,230	90.5%	100.0%	90.5%	53.6	$22,050
Cumberland County	60,519	67.6%	99.9%	67.6%	88.9	$24,985
Davidson County	694,144	97.6%	100.0%	97.6%	1,377.2	$34,343
DeKalb County	20,489	99.5%	100.0%	99.5%	67.3	$25,643
Decatur County	11,663	74.7%	100.0%	74.7%	34.9	$24,337
Dickson County	53,948	79.1%	100.0%	79.1%	110.1	$26,093
Dyer County	37,159	92.2%	100.0%	92.2%	72.5	$25,427
Fayette County	41,132	81.5%	100.0%	81.5%	58.4	$31,629
Fentress County	18,522	98.9%	98.9%	97.8%	37.1	$19,013
Franklin County	42,205	97.5%	98.9%	97.0%	76.1	$27,027
Gibson County	49,133	95.3%	100.0%	95.3%	81.5	$22,565
Giles County	29,464	87.7%	100.0%	87.7%	48.2	$23,877
Grainger County	23,320	67.6%	100.0%	67.6%	83.1	$22,151
Greene County	69,069	96.2%	100.0%	96.2%	111.0	$23,668
Grundy County	13,427	87.5%	99.6%	87.1%	37.2	$18,782
Hamblen County	64,934	100.0%	100.0%	100.0%	402.9	$22,252
Hamilton County	367,799	98.7%	100.0%	98.7%	678.1	$31,184
Hancock County	6,619	70.9%	96.1%	67.4%	29.8	$20,578
Hardeman County	25,050	56.4%	100.0%	56.4%	37.5	$17,352
Hardin County	25,652	63.9%	100.0%	63.9%	44.4	$22,905
Hawkins County	56,785	82.4%	99.8%	82.4%	116.6	$23,801
Haywood County	17,304	84.2%	100.0%	84.2%	32.5	$22,148
Henderson County	28,116	72.8%	100.0%	72.8%	54.1	$21,793
Henry County	32,345	86.5%	100.0%	86.5%	57.5	$22,727
Hickman County	25,178	78.9%	99.5%	78.8%	41.1	$22,248
Houston County	8,201	83.8%	99.8%	83.7%	40.9	$21,866
Humphreys County	18,582	74.4%	100.0%	74.4%	35.0	$23,636
Jackson County	11,786	92.8%	92.7%	86.1%	38.2	$20,276
Jefferson County	54,495	82.2%	100.0%	82.2%	198.8	$24,855

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Johnson County	17,788	93.7%	98.7%	93.1%	59.6	$19,784
Knox County	470,309	98.3%	100.0%	98.3%	925.4	$31,678
Lake County	7,016	100.0%	100.0%	100.0%	42.3	$16,671
Lauderdale County	25,633	83.2%	100.0%	83.2%	54.3	$18,128
Lawrence County	44,140	94.5%	99.9%	94.4%	71.5	$20,752
Lewis County	12,085	90.0%	99.8%	89.8%	42.8	$21,510
Lincoln County	34,359	96.3%	100.0%	96.3%	60.2	$25,077
Loudon County	54,066	93.2%	100.0%	93.2%	235.9	$30,175
Macon County	24,602	98.8%	98.0%	96.8%	80.1	$21,972
Madison County	97,984	95.7%	100.0%	95.7%	175.9	$25,555
Marion County	28,907	91.0%	99.3%	90.8%	58.0	$24,714
Marshall County	34,373	87.7%	100.0%	87.7%	91.5	$24,876
Maury County	96,382	92.5%	100.0%	92.5%	157.2	$27,307
McMinn County	53,794	80.7%	99.9%	80.7%	125.1	$23,842
McNairy County	25,694	51.0%	100.0%	51.0%	45.6	$20,236
Meigs County	12,421	56.7%	100.0%	56.7%	63.7	$23,555
Monroe County	46,545	86.8%	96.8%	85.1%	73.2	$21,919
Montgomery County	208,989	92.2%	100.0%	92.2%	387.6	$25,938
Moore County	6,488	98.5%	100.0%	98.5%	50.2	$29,969
Morgan County	21,403	100.0%	98.9%	98.9%	41.0	$19,726
Obion County	30,069	78.3%	100.0%	78.3%	55.2	$23,141
Overton County	22,241	89.9%	99.9%	89.8%	51.3	$20,581
Perry County	8,076	79.9%	99.9%	79.9%	19.5	$28,270
Pickett County	5,048	96.2%	97.7%	94.0%	31.0	$23,250
Polk County	16,832	81.5%	92.6%	75.6%	38.7	$24,667
Putnam County	80,245	95.3%	100.0%	95.3%	200.1	$23,873
Rhea County	33,167	90.1%	99.9%	90.1%	105.2	$22,070
Roane County	53,382	93.1%	100.0%	93.1%	148.0	$27,897
Robertson County	71,799	83.6%	100.0%	83.6%	150.7	$28,425
Rutherford County	332,271	96.4%	100.0%	96.4%	536.5	$28,883
Scott County	22,068	100.0%	97.8%	97.8%	41.5	$19,179
Sequatchie County	15,026	72.9%	99.5%	72.4%	56.5	$22,383
Sevier County	98,249	95.1%	99.9%	95.1%	165.8	$23,869
Shelby County	937,165	98.8%	100.0%	98.8%	1,228.0	$28,828

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Smith County	20,156	92.7%	96.0%	88.8%	64.1	$26,256
Stewart County	13,715	65.2%	100.0%	65.2%	29.9	$22,601
Sullivan County	158,344	100.0%	100.0%	100.0%	383.1	$26,933
Sumner County	191,244	97.8%	100.0%	97.8%	361.2	$32,297
Tipton County	61,599	95.8%	100.0%	95.8%	134.4	$27,212
Trousdale County	11,283	86.0%	100.0%	86.0%	98.8	$23,634
Unicoi County	17,883	98.9%	99.6%	98.6%	96.1	$22,700
Union County	19,971	79.6%	100.0%	79.6%	89.3	$21,677
Van Buren County	5,872	70.8%	100.0%	70.8%	21.5	$19,560
Warren County	41,276	90.5%	100.0%	90.5%	95.4	$22,328
Washington County	129,375	97.7%	100.0%	97.7%	396.3	$28,261
Wayne County	16,672	84.4%	99.7%	84.2%	22.7	$19,350
Weakley County	33,328	70.4%	100.0%	70.4%	57.4	$21,641
White County	27,345	94.4%	100.0%	94.4%	72.6	$20,973
Williamson County	238,404	93.8%	100.0%	93.8%	409.2	$50,931
Wilson County	144,649	96.7%	100.0%	96.7%	253.4	$32,850
Texas	**28,977,110**	**95.8%**	**100.0%**	**95.7%**	**110.9**	**$30,641**
Anderson County	57,735	49.7%	99.8%	49.5%	54.3	$16,868
Andrews County	18,705	88.9%	100.0%	88.9%	12.5	$31,190
Angelina County	86,715	90.4%	100.0%	90.4%	108.7	$22,322
Aransas County	23,510	98.6%	100.0%	98.5%	93.3	$30,939
Archer County	8,553	100.0%	100.0%	100.0%	9.5	$31,806
Armstrong County	1,887	72.0%	98.8%	70.9%	2.1	$31,075
Atascosa County	51,151	100.0%	100.0%	100.0%	41.9	$24,421
Austin County	30,032	87.1%	100.0%	87.1%	46.5	$30,858
Bailey County	7,000	76.2%	100.0%	76.2%	8.5	$21,449
Bandera County	23,112	97.1%	99.6%	97.0%	29.2	$28,539
Bastrop County	88,717	100.0%	100.0%	100.0%	99.9	$26,540
Baylor County	3,509	99.7%	100.0%	99.7%	4.0	$25,264
Bee County	32,565	98.7%	100.0%	98.7%	37.0	$17,390
Bell County	362,921	96.4%	100.0%	96.4%	345.3	$25,911
Bexar County	2,003,548	100.0%	100.0%	100.0%	1,616.0	$26,988
Blanco County	11,931	70.9%	100.0%	70.9%	16.8	$34,925
Borden County	654	34.4%	100.0%	34.4%	0.7	$33,781

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Bosque County	18,685	99.4%	100.0%	99.4%	19.0	$26,039
Bowie County	93,245	92.3%	100.0%	92.3%	105.4	$25,355
Brazoria County	374,261	86.3%	100.0%	86.3%	275.7	$33,547
Brazos County	229,211	95.9%	100.0%	95.9%	391.5	$26,539
Brewster County	9,203	77.3%	86.5%	71.4%	1.5	$27,227
Briscoe County	1,546	84.7%	100.0%	84.7%	1.7	$24,286
Brooks County	7,093	99.8%	100.0%	99.8%	7.5	$13,800
Brown County	37,864	100.0%	100.0%	100.0%	40.1	$25,145
Burleson County	18,443	100.0%	100.0%	100.0%	28.0	$28,732
Burnet County	48,155	90.0%	100.0%	90.0%	48.4	$30,507
Caldwell County	43,657	100.0%	100.0%	100.0%	80.1	$23,881
Calhoun County	21,290	87.1%	100.0%	87.1%	42.0	$26,596
Callahan County	13,943	96.0%	100.0%	96.0%	15.5	$24,537
Cameron County	423,163	100.0%	99.9%	99.9%	475.0	$16,587
Camp County	13,094	48.5%	100.0%	48.5%	66.9	$20,898
Carson County	5,926	99.5%	100.0%	99.5%	6.4	$32,917
Cass County	30,026	55.3%	100.0%	55.3%	32.0	$22,545
Castro County	7,530	80.7%	100.0%	80.7%	8.4	$20,915
Chambers County	43,836	94.8%	100.0%	94.8%	73.4	$34,372
Cherokee County	52,646	69.3%	100.0%	69.3%	50.0	$21,520
Childress County	7,306	93.2%	100.0%	93.2%	10.5	$20,234
Clay County	10,471	99.5%	100.0%	99.5%	9.6	$27,678
Cochran County	2,853	75.2%	100.0%	75.2%	3.7	$21,014
Coke County	3,387	85.2%	99.8%	85.2%	3.7	$24,768
Coleman County	8,175	34.3%	100.0%	34.3%	6.5	$27,842
Collin County	1,034,685	99.3%	100.0%	99.3%	1,230.0	$43,439
Collingsworth County	2,920	96.8%	100.0%	96.8%	3.2	$22,880
Colorado County	21,493	81.7%	100.0%	81.7%	22.4	$27,861
Comal County	156,199	99.1%	100.0%	99.1%	279.2	$36,899
Comanche County	13,534	91.3%	100.0%	91.3%	14.4	$25,127
Concho County	2,726	83.5%	100.0%	83.5%	2.8	$17,684
Cooke County	41,257	99.2%	100.0%	99.2%	47.2	$28,751
Coryell County	75,950	99.1%	100.0%	99.1%	72.2	$21,507

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Cottle County	1,389	89.9%	100.0%	89.9%	1.5	$20,108
Crane County	4,797	14.6%	100.0%	14.6%	6.1	$26,113
Crockett County	3,464	36.6%	99.7%	36.6%	1.2	$24,852
Crosby County	5,737	87.6%	100.0%	87.6%	6.4	$19,155
Culberson County	2,171	91.9%	100.0%	91.9%	0.6	$15,873
Dallam County	7,286	95.9%	100.0%	95.9%	4.8	$26,844
Dallas County	2,635,516	99.9%	100.0%	99.9%	3,024.9	$31,219
Dawson County	12,728	99.4%	100.0%	99.4%	14.1	$21,543
DeWitt County	20,160	89.4%	100.0%	89.4%	22.2	$28,728
Deaf Smith County	18,546	92.9%	100.0%	92.9%	12.4	$21,515
Delta County	5,331	85.4%	100.0%	85.4%	20.8	$25,004
Denton County	887,192	99.7%	100.0%	99.7%	1,010.0	$39,535
Dickens County	2,211	95.9%	100.0%	95.9%	2.5	$23,452
Dimmit County	10,124	78.7%	100.0%	78.7%	7.6	$18,121
Donley County	3,278	52.7%	100.0%	52.7%	3.5	$23,711
Duval County	11,157	76.0%	100.0%	76.0%	6.2	$17,864
Eastland County	18,360	100.0%	100.0%	100.0%	19.8	$23,940
Ector County	166,222	95.0%	100.0%	95.0%	185.2	$28,700
Edwards County	1,932	46.2%	99.1%	46.2%	0.9	$29,814
El Paso County	839,238	98.0%	100.0%	98.0%	828.7	$20,763
Ellis County	184,826	99.6%	100.0%	99.6%	197.6	$30,727
Erath County	42,698	100.0%	100.0%	100.0%	39.4	$25,290
Falls County	17,297	94.0%	100.0%	94.0%	22.6	$17,830
Fannin County	35,512	88.3%	100.0%	88.3%	39.9	$24,581
Fayette County	25,346	92.2%	100.0%	92.2%	26.7	$30,097
Fisher County	3,830	7.9%	100.0%	7.9%	4.3	$28,355
Floyd County	5,712	77.8%	100.0%	77.8%	5.8	$23,308
Foard County	1,155	99.4%	100.0%	99.4%	1.6	$25,636
Fort Bend County	811,670	94.8%	100.0%	94.8%	942.2	$39,472
Franklin County	10,725	75.8%	100.0%	75.8%	37.7	$25,602
Freestone County	19,717	80.9%	100.0%	80.9%	22.5	$24,083
Frio County	20,305	99.3%	100.0%	99.3%	17.9	$18,288
Gaines County	21,491	97.7%	100.0%	97.7%	14.3	$22,710
Galveston County	342,139	93.9%	99.9%	93.9%	904.3	$35,448

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Garza County	6,229	91.3%	100.0%	91.3%	7.0	$19,177
Gillespie County	26,988	97.9%	100.0%	97.9%	25.5	$33,515
Glasscock County	1,409	73.6%	100.0%	73.6%	1.6	$30,902
Goliad County	7,658	65.6%	100.0%	65.6%	9.0	$29,918
Gonzales County	20,837	99.9%	100.0%	99.9%	19.5	$26,618
Gray County	21,886	95.8%	100.0%	95.8%	23.6	$24,911
Grayson County	136,205	99.9%	100.0%	99.9%	146.0	$27,276
Gregg County	123,945	92.9%	100.0%	92.9%	453.5	$25,839
Grimes County	28,880	80.1%	100.0%	80.1%	36.7	$23,513
Guadalupe County	166,846	100.0%	100.0%	100.0%	234.6	$30,817
Hale County	33,406	94.5%	100.0%	94.5%	33.3	$19,854
Hall County	2,964	65.5%	100.0%	65.5%	3.4	$22,846
Hamilton County	8,461	93.8%	100.0%	93.8%	10.1	$28,074
Hansford County	5,399	92.1%	100.0%	92.1%	5.9	$20,127
Hardeman County	3,933	98.8%	100.0%	98.8%	5.7	$22,938
Hardin County	57,602	81.6%	100.0%	81.6%	64.7	$29,108
Harris County	4,713,323	94.7%	100.0%	94.7%	2,766.9	$31,901
Harrison County	66,553	82.2%	100.0%	82.2%	74.0	$25,418
Hartley County	5,576	89.4%	100.0%	89.4%	3.8	$20,480
Haskell County	5,658	97.2%	100.0%	97.2%	6.3	$21,308
Hays County	230,183	97.2%	100.0%	97.2%	339.5	$30,715
Hemphill County	3,819	9.4%	99.9%	9.4%	4.2	$26,781
Henderson County	82,737	66.3%	100.0%	66.3%	94.7	$25,280
Hidalgo County	868,707	99.8%	100.0%	99.8%	553.0	$16,490
Hill County	36,649	100.0%	100.0%	100.0%	38.2	$24,745
Hockley County	23,021	97.3%	100.0%	97.3%	25.3	$23,440
Hood County	61,643	100.0%	100.0%	100.0%	146.5	$32,727
Hopkins County	37,081	78.0%	100.0%	78.0%	48.3	$26,267
Houston County	22,968	68.9%	99.3%	68.8%	18.7	$18,080
Howard County	36,664	85.0%	100.0%	85.0%	40.7	$23,784
Hudspeth County	4,886	61.9%	99.2%	61.5%	1.1	$14,190
Hunt County	98,590	96.7%	100.0%	96.7%	117.3	$25,077
Hutchinson County	20,938	99.3%	100.0%	99.3%	23.6	$24,725
Irion County	1,536	81.2%	100.0%	81.2%	1.5	$31,449

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Jack County	8,935	99.9%	100.0%	99.9%	9.8	$25,626
Jackson County	14,760	74.3%	100.0%	74.3%	17.8	$26,329
Jasper County	35,529	35.4%	100.0%	35.4%	37.8	$25,004
Jeff Davis County	2,274	48.8%	92.5%	47.4%	1.0	$26,053
Jefferson County	251,565	95.0%	100.0%	95.0%	287.1	$26,205
Jim Hogg County	5,200	97.6%	100.0%	97.6%	4.6	$17,798
Jim Wells County	40,482	100.0%	100.0%	100.0%	46.8	$21,274
Johnson County	175,814	100.0%	100.0%	100.0%	242.6	$27,667
Jones County	20,083	63.0%	100.0%	63.0%	21.6	$17,673
Karnes County	15,601	100.0%	100.0%	100.0%	20.9	$26,875
Kaufman County	136,143	91.8%	100.0%	91.8%	174.4	$27,411
Kendall County	47,430	93.3%	100.0%	93.3%	71.6	$43,241
Kenedy County	404	23.3%	100.0%	23.3%	0.3	$15,820
Kent County	762	82.4%	100.0%	82.4%	0.8	$29,503
Kerr County	52,405	96.9%	100.0%	96.9%	47.5	$30,498
Kimble County	4,337	79.7%	100.0%	79.7%	3.5	$28,899
King County	272	48.5%	99.6%	48.5%	0.3	$31,564
Kinney County	3,667	2.2%	99.9%	2.1%	2.7	$20,323
Kleberg County	30,680	97.2%	100.0%	97.2%	34.8	$21,986
Knox County	3,664	99.9%	100.0%	99.9%	4.3	$21,796
La Salle County	7,520	73.6%	100.0%	73.6%	5.1	$25,129
Lamar County	49,728	99.9%	100.0%	99.9%	54.8	$23,833
Lamb County	12,893	91.4%	100.0%	91.4%	12.7	$21,506
Lampasas County	21,428	92.6%	100.0%	92.6%	30.1	$28,158
Lavaca County	20,154	91.3%	100.0%	91.3%	20.8	$31,670
Lee County	17,144	100.0%	100.0%	100.0%	27.3	$25,876
Leon County	17,270	61.9%	98.3%	60.6%	16.1	$32,130
Liberty County	88,218	70.2%	100.0%	70.2%	76.2	$22,757
Limestone County	23,437	89.2%	100.0%	89.2%	25.9	$21,822
Lipscomb County	3,233	74.2%	100.0%	74.2%	3.5	$28,491
Live Oak County	12,207	100.0%	100.0%	100.0%	11.7	$24,244
Llano County	21,795	91.8%	100.0%	91.8%	23.3	$35,822
Loving County	169	30.2%	100.0%	30.2%	0.3	$23,546
Lubbock County	310,569	99.2%	100.0%	99.2%	346.8	$27,089

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Lynn County	5,951	99.5%	100.0%	99.5%	6.7	$25,279
Madison County	14,284	45.4%	100.0%	45.4%	30.6	$17,856
Marion County	9,854	59.9%	100.0%	59.9%	25.9	$27,052
Martin County	5,771	85.9%	100.0%	85.9%	6.3	$29,225
Mason County	4,274	99.9%	100.0%	99.8%	4.6	$25,602
Matagorda County	36,643	79.9%	100.0%	79.9%	33.3	$24,376
Maverick County	58,722	93.5%	100.0%	93.5%	45.9	$16,891
McCulloch County	7,984	100.0%	100.0%	100.0%	7.5	$24,409
McLennan County	256,621	100.0%	100.0%	100.0%	247.4	$24,826
McMullen County	743	98.3%	100.0%	98.3%	0.7	$32,556
Medina County	51,584	99.8%	100.0%	99.8%	38.9	$26,274
Menard County	2,138	91.0%	100.0%	91.0%	2.4	$25,067
Midland County	176,832	99.1%	100.0%	99.1%	196.4	$39,179
Milam County	24,823	100.0%	100.0%	100.0%	24.4	$24,015
Mills County	4,873	88.1%	100.0%	88.1%	6.5	$24,274
Mitchell County	8,545	91.8%	99.9%	91.8%	9.4	$20,896
Montague County	19,596	98.8%	100.0%	98.8%	21.1	$28,457
Montgomery County	607,386	93.9%	100.0%	93.9%	583.1	$39,618
Moore County	20,940	99.2%	100.0%	99.2%	23.3	$21,650
Morris County	12,388	69.3%	100.0%	69.3%	49.2	$23,438
Motley County	1,200	89.7%	100.0%	89.7%	1.2	$26,103
Nacogdoches County	65,204	65.6%	100.0%	65.6%	68.9	$22,580
Navarro County	50,113	98.1%	100.0%	98.1%	49.6	$23,422
Newton County	13,595	30.1%	99.9%	30.1%	14.6	$21,144
Nolan County	14,714	75.0%	100.0%	75.0%	16.1	$25,820
Nueces County	362,294	99.5%	100.0%	99.4%	432.1	$27,649
Ochiltree County	9,836	88.3%	100.0%	88.3%	10.7	$24,260
Oldham County	2,112	75.6%	100.0%	75.6%	1.4	$24,151
Orange County	83,396	89.8%	100.0%	89.8%	249.9	$28,826
Palo Pinto County	29,189	100.0%	100.0%	100.0%	30.7	$24,983
Panola County	23,194	60.4%	100.0%	60.4%	28.9	$26,403
Parker County	142,878	100.0%	100.0%	100.0%	158.1	$34,705
Parmer County	9,605	66.7%	100.0%	66.7%	10.9	$23,686
Pecos County	15,823	79.1%	99.9%	79.1%	3.3	$20,688

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Polk County	51,353	77.6%	100.0%	77.6%	48.6	$24,686
Potter County	117,415	99.5%	100.0%	99.5%	129.3	$22,267
Presidio County	6,704	31.0%	96.5%	30.6%	1.7	$16,066
Rains County	12,513	97.3%	100.0%	97.3%	54.5	$26,165
Randall County	137,709	98.1%	100.0%	98.1%	151.1	$33,814
Reagan County	3,849	83.1%	99.9%	83.1%	3.3	$25,397
Real County	3,452	69.2%	95.5%	66.2%	4.9	$21,109
Red River County	12,023	87.1%	100.0%	87.1%	11.6	$21,666
Reeves County	15,976	93.5%	100.0%	93.5%	6.1	$20,876
Refugio County	6,948	75.4%	100.0%	75.4%	9.0	$23,810
Roberts County	854	75.8%	100.0%	75.8%	0.9	$31,632
Robertson County	17,074	91.9%	100.0%	91.9%	20.0	$25,465
Rockwall County	104,882	99.5%	100.0%	99.5%	825.6	$39,295
Runnels County	10,264	93.6%	100.0%	93.6%	9.8	$23,042
Rusk County	54,406	76.4%	100.0%	76.4%	58.9	$24,842
Sabine County	10,542	69.3%	99.9%	69.2%	21.5	$23,450
San Augustine County	8,237	23.4%	99.7%	23.1%	15.5	$23,261
San Jacinto County	28,859	80.6%	100.0%	80.6%	50.7	$21,808
San Patricio County	66,730	99.4%	100.0%	99.4%	96.2	$25,281
San Saba County	6,055	80.5%	100.0%	80.5%	5.3	$24,307
Schleicher County	2,793	21.8%	100.0%	21.8%	2.1	$25,128
Scurry County	16,703	71.1%	100.0%	71.1%	18.4	$24,508
Shackelford County	3,265	24.4%	100.0%	24.4%	3.6	$23,855
Shelby County	25,274	26.2%	100.0%	26.2%	31.8	$20,969
Sherman County	3,022	58.9%	100.0%	58.9%	3.3	$26,335
Smith County	232,745	87.4%	100.0%	87.4%	252.6	$27,141
Somervell County	9,128	100.0%	100.0%	100.0%	49.0	$26,523
Starr County	64,633	96.2%	100.0%	96.2%	52.8	$14,122
Stephens County	9,366	100.0%	100.0%	100.0%	10.4	$24,405
Sterling County	1,291	40.8%	99.7%	40.8%	1.4	$28,997
Stonewall County	1,350	88.2%	100.0%	88.2%	1.5	$28,746
Sutton County	3,776	64.3%	99.8%	64.3%	2.6	$29,360
Swisher County	7,397	87.9%	100.0%	87.9%	8.3	$19,258
Tarrant County	2,084,924	99.9%	100.0%	99.9%	2,414.2	$32,092

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Taylor County	138,034	95.9%	100.0%	95.9%	150.8	$26,469
Terrell County	776	81.8%	97.9%	81.3%	0.3	$23,852
Terry County	12,337	99.7%	100.0%	99.7%	13.9	$20,127
Throckmorton County	1,501	74.0%	100.0%	74.0%	1.6	$28,895
Titus County	32,750	61.7%	100.0%	61.7%	80.7	$20,633
Tom Green County	119,200	95.1%	100.0%	95.1%	78.3	$28,444
Travis County	1,273,938	99.8%	100.0%	99.8%	1,286.5	$41,049
Trinity County	14,651	73.7%	100.0%	73.7%	21.1	$22,265
Tyler County	21,672	40.8%	100.0%	40.8%	23.4	$20,439
Upshur County	41,749	92.6%	100.0%	92.6%	71.6	$24,458
Upton County	3,657	10.8%	100.0%	10.8%	2.9	$26,183
Uvalde County	26,741	99.7%	100.0%	99.7%	17.2	$19,092
Val Verde County	49,025	97.0%	99.8%	97.0%	15.6	$20,881
Van Zandt County	56,590	93.6%	100.0%	93.6%	67.2	$26,151
Victoria County	92,084	86.7%	100.0%	86.7%	104.4	$28,576
Walker County	72,971	70.6%	100.0%	70.6%	93.1	$17,789
Waller County	55,234	93.2%	100.0%	93.2%	107.6	$24,495
Ward County	11,998	97.5%	100.0%	97.5%	14.4	$26,570
Washington County	35,880	89.3%	100.0%	89.3%	59.4	$29,604
Webb County	276,652	98.2%	100.0%	98.2%	82.3	$17,326
Wharton County	41,556	86.0%	100.0%	86.0%	38.3	$26,281
Wheeler County	5,056	97.7%	100.0%	97.7%	5.5	$26,844
Wichita County	132,230	98.0%	100.0%	98.0%	210.6	$23,921
Wilbarger County	12,769	99.2%	100.0%	99.2%	13.2	$24,078
Willacy County	21,358	100.0%	100.0%	100.0%	36.2	$14,207
Williamson County	590,514	96.5%	100.0%	96.5%	528.0	$35,825
Wilson County	51,065	100.0%	100.0%	100.0%	63.5	$30,935
Winkler County	8,010	41.8%	100.0%	41.8%	9.5	$24,217
Wise County	69,983	99.9%	100.0%	99.9%	77.4	$28,781
Wood County	45,538	78.7%	100.0%	78.7%	70.6	$27,841
Yoakum County	8,713	86.5%	100.0%	86.5%	10.9	$26,519
Young County	18,010	100.0%	100.0%	100.0%	19.7	$25,855
Zapata County	14,179	81.3%	100.0%	81.3%	14.2	$17,228

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Zavala County	11,840	80.3%	100.0%	80.3%	9.1	$13,350
Utah	**3,205,514**	**95.7%**	**99.9%**	**95.7%**	**39.0**	**$29,756**
Beaver County	6,710	94.7%	99.9%	94.7%	2.6	$22,558
Box Elder County	56,044	91.9%	99.9%	91.9%	9.8	$23,998
Cache County	128,288	99.7%	99.9%	99.7%	110.1	$22,666
Carbon County	20,463	92.1%	100.0%	92.1%	13.8	$23,473
Daggett County	950	88.2%	98.6%	88.2%	1.4	$27,698
Davis County	355,477	99.2%	100.0%	99.2%	1,189.8	$29,703
Duchesne County	19,938	70.0%	99.9%	70.0%	6.2	$23,945
Emery County	10,012	80.9%	99.9%	80.9%	2.2	$22,505
Garfield County	5,051	98.4%	98.6%	97.4%	1.0	$24,055
Grand County	9,754	53.2%	94.1%	53.2%	2.7	$24,593
Iron County	54,839	95.9%	99.9%	95.9%	16.6	$20,861
Juab County	12,014	83.6%	94.4%	81.7%	3.5	$22,498
Kane County	7,709	95.3%	99.9%	95.3%	1.9	$25,746
Millard County	13,006	67.7%	99.3%	67.7%	2.0	$25,847
Morgan County	12,124	86.9%	95.8%	86.8%	19.9	$31,936
Piute County	1,479	99.7%	100.0%	99.7%	2.0	$16,932
Rich County	2,483	86.5%	100.0%	86.5%	2.4	$21,465
Salt Lake County	1,160,435	99.4%	100.0%	99.4%	1,563.3	$31,648
San Juan County	15,308	29.5%	91.2%	28.0%	2.0	$18,128
Sanpete County	30,939	94.2%	100.0%	94.2%	19.5	$17,980
Sevier County	21,620	96.4%	100.0%	96.4%	11.3	$22,349
Summit County	42,144	82.1%	99.5%	82.0%	22.5	$53,950
Tooele County	72,254	85.2%	99.7%	85.1%	10.4	$25,076
Uintah County	35,733	78.7%	99.9%	78.7%	8.0	$25,610
Utah County	636,197	92.9%	100.0%	92.9%	317.6	$24,528
Wasatch County	34,088	87.9%	99.6%	87.9%	29.0	$32,805
Washington County	177,547	97.7%	100.0%	97.7%	73.2	$26,601
Wayne County	2,711	89.6%	99.8%	89.6%	1.1	$22,920
Weber County	260,197	98.2%	99.9%	98.2%	451.7	$26,492
Vermont	**623,989**	**93.1%**	**99.9%**	**93.1%**	**67.7**	**$33,956**
Addison County	36,777	92.4%	100.0%	92.4%	48.0	$33,120
Bennington County	35,470	96.8%	99.9%	96.8%	52.5	$31,896

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Caledonia County	29,993	85.1%	100.0%	85.1%	46.2	$28,085
Chittenden County	163,774	97.8%	100.0%	97.8%	305.2	$37,507
Essex County	6,163	72.7%	94.8%	68.5%	9.3	$24,163
Franklin County	49,402	90.3%	99.9%	90.2%	78.0	$30,692
Grand Isle County	7,235	99.2%	100.0%	99.2%	88.4	$40,464
Lamoille County	25,362	91.2%	100.0%	91.2%	55.3	$33,247
Orange County	28,892	80.8%	100.0%	80.8%	42.1	$30,836
Orleans County	27,037	84.6%	99.9%	84.6%	39.0	$26,657
Rutland County	58,191	95.7%	100.0%	95.7%	62.6	$30,109
Washington County	58,409	94.1%	100.0%	94.1%	85.0	$34,033
Windham County	42,222	90.4%	100.0%	90.4%	53.8	$31,563
Windsor County	55,062	95.8%	100.0%	95.7%	56.8	$35,152
Virginia	**8,540,997**	**94.2%**	**99.8%**	**94.0%**	**216.3**	**$38,900**
Accomack County	32,316	90.5%	99.9%	90.4%	71.9	$24,355
Albemarle County	109,325	92.6%	99.9%	92.5%	151.7	$42,085
Alexandria city	159,428	98.3%	100.0%	98.3%	10,609.4	$59,239
Alleghany County	14,860	93.6%	97.5%	91.7%	33.4	$26,918
Amelia County	13,144	70.4%	98.6%	70.4%	37.0	$29,114
Amherst County	31,605	94.2%	99.9%	94.2%	66.7	$24,343
Appomattox County	15,911	76.7%	100.0%	76.7%	47.7	$26,890
Arlington County	236,842	98.1%	100.0%	98.1%	9,118.3	$69,051
Augusta County	75,557	98.4%	99.0%	97.7%	78.1	$29,366
Bath County	4,147	72.6%	90.7%	66.0%	7.8	$29,127
Bedford County	84,635	81.7%	99.9%	81.7%	111.4	$31,796
Bland County	6,280	78.9%	98.4%	77.7%	17.6	$24,275
Botetourt County	33,419	80.4%	99.6%	80.4%	61.7	$33,983
Bristol city	16,743	100.0%	100.0%	100.0%	1,286.6	$22,900
Brunswick County	16,231	29.6%	100.0%	29.6%	28.7	$20,657
Buchanan County	21,004	100.0%	82.5%	82.5%	41.8	$18,865
Buckingham County	17,148	39.8%	100.0%	39.8%	29.6	$19,734
Buena Vista city	6,475	97.2%	100.0%	97.2%	965.9	$19,744
Campbell County	54,885	79.1%	100.0%	79.1%	108.9	$27,842
Caroline County	30,725	64.1%	100.0%	64.1%	58.2	$31,536
Carroll County	29,788	94.9%	99.0%	94.0%	62.8	$24,868

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Charles City County	6,963	100.0%	100.0%	100.0%	38.1	$37,059
Charlotte County	11,880	52.6%	99.9%	52.5%	25.0	$20,585
Charlottesville city	47,266	99.3%	100.0%	99.3%	4,616.5	$35,026
Chesapeake city	244,826	98.2%	100.0%	98.2%	718.4	$33,844
Chesterfield County	352,793	97.3%	100.0%	97.3%	833.4	$36,641
Clarke County	14,619	99.5%	100.0%	99.5%	83.0	$39,946
Colonial Heights city	17,370	98.7%	100.0%	98.7%	2,309.9	$27,579
Covington city	5,538	99.7%	100.0%	99.7%	1,012.7	$24,955
Craig County	5,130	74.7%	59.6%	49.7%	15.6	$28,686
Culpeper County	52,604	99.9%	100.0%	99.9%	138.7	$30,812
Cumberland County	9,932	19.7%	100.0%	19.7%	33.4	$25,177
Danville city	40,044	99.1%	100.0%	99.1%	932.7	$22,200
Dickenson County	14,318	97.8%	94.9%	92.6%	43.3	$22,924
Dinwiddie County	28,544	54.8%	100.0%	54.8%	56.7	$27,106
Emporia city	5,345	96.0%	100.0%	96.0%	775.3	$18,694
Essex County	10,952	74.9%	100.0%	74.9%	42.6	$26,603
Fairfax County	1,147,532	98.5%	100.0%	98.5%	2,935.1	$54,725
Fairfax city	24,019	99.8%	100.0%	99.8%	3,849.7	$47,047
Falls Church city	14,617	98.6%	100.0%	98.6%	7,313.0	$69,775
Fauquier County	71,220	90.3%	100.0%	90.3%	110.0	$44,724
Floyd County	15,749	75.9%	99.8%	75.9%	41.4	$26,134
Fluvanna County	27,268	82.2%	100.0%	82.2%	95.3	$39,900
Franklin County	56,042	88.1%	100.0%	88.1%	81.2	$28,866
Franklin city	7,967	100.0%	100.0%	100.0%	970.9	$25,229
Frederick County	89,310	83.1%	100.0%	83.1%	216.0	$33,961
Fredericksburg city	29,036	93.4%	100.0%	93.4%	2,781.2	$34,722
Galax city	6,347	100.0%	100.0%	100.0%	770.3	$21,722
Giles County	16,720	95.9%	99.5%	95.8%	47.0	$26,459
Gloucester County	37,348	94.9%	100.0%	94.9%	171.5	$33,295
Goochland County	23,750	66.9%	100.0%	66.9%	84.4	$47,806
Grayson County	15,550	75.2%	82.1%	68.9%	35.2	$20,930
Greene County	19,819	99.9%	99.9%	99.7%	126.8	$32,565
Greensville County	11,336	24.0%	100.0%	24.0%	38.4	$17,500
Halifax County	33,911	71.8%	100.0%	71.8%	41.5	$22,716

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Hampton city	134,510	97.9%	99.8%	97.7%	2,616.2	$28,384
Hanover County	107,761	88.0%	100.0%	88.0%	230.0	$39,604
Harrisonburg city	53,016	100.0%	100.0%	100.0%	3,043.7	$21,793
Henrico County	330,814	98.2%	100.0%	98.2%	1,415.6	$37,999
Henry County	50,557	96.2%	100.0%	96.2%	132.2	$21,501
Highland County	2,190	48.2%	62.6%	33.2%	5.3	$30,967
Hopewell city	22,529	98.3%	100.0%	98.3%	2,191.9	$22,038
Isle of Wight County	37,109	85.8%	100.0%	85.8%	117.6	$35,344
James City County	76,519	94.6%	100.0%	94.6%	537.2	$43,815
King George County	26,836	93.4%	100.0%	93.4%	149.4	$37,316
King William County	17,148	41.1%	100.0%	41.1%	62.6	$32,809
King and Queen County	7,025	22.3%	100.0%	22.3%	22.3	$27,306
Lancaster County	10,603	100.0%	99.9%	99.9%	79.6	$37,196
Lee County	23,423	88.9%	97.8%	88.2%	53.8	$18,750
Lexington city	7,444	96.1%	100.0%	96.1%	2,981.3	$17,762
Loudoun County	413,520	99.6%	100.0%	99.6%	802.1	$53,408
Louisa County	37,587	68.0%	100.0%	68.0%	75.7	$31,284
Lunenburg County	12,196	29.4%	100.0%	29.4%	28.3	$18,677
Lynchburg city	82,168	90.9%	100.0%	90.9%	1,672.5	$22,972
Madison County	13,261	100.0%	100.0%	100.0%	41.4	$30,351
Manassas Park city	17,474	98.4%	100.0%	98.4%	6,896.5	$31,420
Manassas city	41,085	96.1%	100.0%	96.1%	4,158.1	$31,638
Martinsville city	12,554	98.7%	100.0%	98.7%	1,145.8	$22,669
Mathews County	8,834	96.1%	99.0%	95.1%	102.8	$39,119
Mecklenburg County	30,587	57.2%	100.0%	57.2%	48.9	$23,943
Middlesex County	10,582	97.4%	100.0%	97.4%	81.2	$29,707
Montgomery County	98,535	99.4%	99.9%	99.2%	254.6	$28,920
Nelson County	14,929	94.9%	99.8%	94.8%	31.7	$36,002
New Kent County	23,090	76.6%	100.0%	76.6%	110.1	$36,458
Newport News city	179,221	98.3%	100.0%	98.3%	2,608.2	$26,993
Norfolk city	242,742	97.1%	100.0%	97.1%	4,485.2	$28,508
Northampton County	11,710	94.1%	99.9%	94.0%	55.3	$26,467

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Northumberland County	12,095	100.0%	100.0%	100.0%	63.2	$34,006
Norton city	3,981	96.6%	100.0%	96.6%	532.2	$20,917
Nottoway County	15,232	55.7%	100.0%	55.7%	48.4	$23,109
Orange County	37,049	99.8%	100.0%	99.8%	108.7	$31,362
Page County	23,902	99.5%	100.0%	99.5%	76.9	$25,021
Patrick County	17,608	44.2%	99.3%	43.6%	36.4	$23,016
Petersburg city	31,346	98.6%	100.0%	98.6%	1,366.9	$22,356
Pittsylvania County	60,354	70.6%	100.0%	70.6%	62.3	$24,443
Poquoson city	12,271	99.1%	100.0%	99.1%	801.2	$40,277
Portsmouth city	94,398	98.3%	100.0%	98.3%	2,805.1	$25,179
Powhatan County	29,652	83.5%	100.0%	83.5%	113.9	$35,641
Prince Edward County	22,802	63.7%	100.0%	63.7%	65.2	$21,216
Prince George County	38,353	89.6%	100.0%	89.6%	144.6	$28,873
Prince William County	470,320	97.3%	100.0%	97.3%	1,398.1	$39,262
Pulaski County	34,027	99.8%	100.0%	99.8%	106.4	$26,609
Radford city	18,249	99.9%	100.0%	99.9%	1,848.6	$20,760
Rappahannock County	7,369	91.8%	97.7%	90.6%	27.7	$37,733
Richmond County	9,023	98.7%	100.0%	98.7%	47.1	$22,105
Richmond city	230,422	94.8%	100.0%	94.8%	3,852.9	$31,635
Roanoke County	94,184	98.8%	99.8%	98.6%	376.0	$34,901
Roanoke city	99,143	100.0%	100.0%	100.0%	2,329.4	$26,119
Rockbridge County	22,573	85.1%	99.9%	85.1%	37.8	$31,594
Rockingham County	81,945	98.9%	99.0%	98.5%	96.5	$30,138
Russell County	26,586	89.5%	99.9%	89.4%	56.1	$21,754
Salem city	25,301	100.0%	100.0%	100.0%	1,752.6	$31,274
Scott County	21,565	82.6%	98.5%	82.2%	40.3	$21,157
Shenandoah County	43,616	91.2%	99.8%	91.2%	85.7	$28,064
Smyth County	30,104	93.5%	96.0%	90.1%	66.8	$22,297
Southampton County	17,631	47.6%	100.0%	47.6%	29.4	$25,643
Spotsylvania County	136,213	98.5%	100.0%	98.5%	339.3	$35,794
Stafford County	152,879	98.8%	100.0%	98.8%	568.4	$40,850

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Staunton city	24,932	99.9%	100.0%	99.9%	1,248.1	$28,836
Suffolk city	92,108	94.6%	100.0%	94.6%	230.2	$32,894
Surry County	6,422	91.8%	100.0%	91.8%	23.0	$28,688
Sussex County	11,159	45.3%	100.0%	45.3%	22.8	$18,363
Tazewell County	40,595	98.9%	99.3%	98.2%	78.2	$23,366
Virginia Beach city	449,974	98.3%	100.0%	98.3%	1,807.0	$36,268
Warren County	40,164	91.9%	100.0%	91.9%	188.2	$31,007
Washington County	53,740	99.2%	99.2%	98.4%	95.8	$26,085
Waynesboro city	22,630	98.4%	100.0%	98.4%	1,504.8	$25,421
Westmoreland County	18,015	93.9%	100.0%	93.9%	78.5	$32,637
Williamsburg city	14,951	78.4%	100.0%	78.4%	1,657.2	$29,203
Winchester city	28,078	99.8%	100.0%	99.8%	3,041.1	$29,727
Wise County	37,383	96.4%	100.0%	96.3%	92.7	$21,828
Wythe County	28,684	89.7%	100.0%	89.7%	62.1	$26,513
York County	68,277	98.3%	99.9%	98.3%	651.6	$39,071
Washington	**7,614,474**	**96.3%**	**99.7%**	**96.2%**	**114.6**	**$39,119**
Adams County	19,980	93.5%	100.0%	93.5%	10.4	$19,152
Asotin County	22,582	93.1%	99.2%	93.1%	35.5	$27,896
Benton County	204,387	97.6%	100.0%	97.6%	120.2	$31,580
Chelan County	77,200	100.0%	99.5%	99.5%	26.4	$29,204
Clallam County	77,331	77.2%	99.7%	77.2%	44.5	$29,663
Clark County	488,240	96.3%	100.0%	96.3%	776.2	$34,163
Columbia County	3,985	100.0%	96.4%	96.4%	4.6	$31,206
Cowlitz County	110,591	91.2%	99.2%	91.0%	97.0	$27,264
Douglas County	43,429	100.0%	99.8%	99.8%	23.9	$28,579
Ferry County	7,627	99.6%	95.3%	94.9%	3.5	$23,640
Franklin County	95,219	99.9%	99.5%	99.4%	76.7	$23,373
Garfield County	2,225	59.8%	99.7%	59.8%	3.1	$25,539
Grant County	97,733	93.0%	100.0%	93.0%	36.5	$23,633
Grays Harbor County	75,060	88.6%	99.7%	88.5%	39.5	$25,374
Island County	85,141	98.7%	99.7%	98.5%	408.5	$35,364
Jefferson County	32,220	85.2%	99.8%	85.1%	17.9	$34,187

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
King County	2,252,759	97.3%	99.8%	97.2%	1,064.8	$49,298
Kitsap County	271,470	97.0%	99.7%	96.8%	687.4	$35,826
Kittitas County	47,926	87.1%	99.4%	86.9%	20.9	$27,948
Klickitat County	22,425	62.2%	99.4%	62.1%	12.0	$26,128
Lewis County	80,703	76.5%	99.2%	76.3%	33.6	$25,813
Lincoln County	10,939	57.2%	100.0%	57.2%	4.7	$27,730
Mason County	66,762	93.9%	99.7%	93.7%	69.6	$27,253
Okanogan County	42,243	94.7%	93.7%	89.7%	8.0	$23,961
Pacific County	22,467	85.3%	99.8%	85.3%	24.1	$24,474
Pend Oreille County	13,722	100.0%	99.0%	99.0%	9.8	$26,739
Pierce County	904,976	97.4%	99.7%	97.3%	542.1	$32,874
San Juan County	17,582	97.4%	100.0%	97.4%	101.1	$42,307
Skagit County	129,201	96.1%	99.6%	95.9%	74.6	$31,822
Skamania County	12,081	67.0%	96.1%	66.3%	7.3	$30,217
Snohomish County	822,070	97.4%	99.9%	97.3%	393.8	$37,671
Spokane County	522,793	100.0%	100.0%	100.0%	296.4	$29,982
Stevens County	45,723	100.0%	98.3%	98.3%	18.5	$25,197
Thurston County	290,528	97.6%	99.8%	97.6%	402.4	$33,901
Wahkiakum County	4,488	62.5%	97.7%	62.5%	17.0	$29,452
Walla Walla County	60,760	100.0%	99.9%	99.9%	47.8	$27,835
Whatcom County	229,244	97.7%	99.6%	97.5%	108.8	$30,586
Whitman County	49,789	84.7%	99.9%	84.7%	23.1	$22,585
Yakima County	250,873	94.0%	99.4%	93.9%	58.4	$22,459
West Virginia	**1,792,146**	**82.2%**	**96.6%**	**80.6%**	**74.6**	**$26,179**
Barbour County	16,441	86.8%	97.4%	85.9%	48.2	$22,237
Berkeley County	119,170	96.5%	100.0%	96.5%	371.1	$28,736
Boone County	21,457	91.8%	90.0%	83.2%	42.8	$21,394
Braxton County	13,957	69.1%	92.9%	68.6%	27.3	$21,596
Brooke County	21,939	92.6%	100.0%	92.6%	245.9	$25,537
Cabell County	91,945	94.6%	100.0%	94.6%	327.2	$24,506
Calhoun County	7,109	30.4%	90.5%	29.3%	25.5	$19,911
Clay County	8,508	44.2%	85.8%	35.1%	24.9	$16,780
Doddridge County	8,448	48.3%	84.6%	46.8%	26.4	$22,598
Fayette County	42,406	78.7%	98.2%	77.3%	64.1	$21,466

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Gilmer County	7,823	38.9%	80.8%	36.8%	23.1	$17,313
Grant County	11,568	61.6%	98.2%	60.3%	24.2	$22,828
Greenbrier County	34,662	77.7%	95.4%	75.4%	34.0	$23,936
Hampshire County	23,175	49.8%	98.3%	48.9%	36.2	$23,011
Hancock County	28,810	94.8%	100.0%	94.8%	348.7	$25,637
Hardy County	13,776	97.6%	94.3%	91.9%	23.7	$26,596
Harrison County	67,256	90.2%	98.8%	90.2%	161.7	$27,869
Jackson County	28,576	92.2%	99.3%	92.0%	61.5	$24,661
Jefferson County	57,146	97.8%	100.0%	97.8%	272.6	$34,750
Kanawha County	178,124	92.5%	99.3%	92.1%	197.6	$28,405
Lewis County	15,907	84.4%	92.0%	81.0%	41.3	$22,575
Lincoln County	20,409	75.9%	77.2%	61.6%	46.7	$19,423
Logan County	32,019	75.9%	93.7%	72.2%	70.6	$21,672
Marion County	56,072	92.8%	99.6%	92.8%	181.6	$25,909
Marshall County	30,531	79.2%	99.0%	79.0%	100.0	$24,882
Mason County	26,516	61.9%	99.5%	61.9%	61.6	$21,812
McDowell County	17,624	87.5%	67.1%	61.7%	33.0	$14,489
Mercer County	58,758	94.2%	99.7%	94.1%	140.2	$21,821
Mineral County	26,868	76.5%	100.0%	76.5%	82.0	$23,546
Mingo County	23,424	66.6%	87.4%	60.6%	55.4	$19,025
Monongalia County	105,612	53.6%	99.2%	53.5%	293.3	$30,641
Monroe County	13,275	87.2%	89.5%	83.8%	28.1	$23,412
Morgan County	17,884	80.5%	98.1%	80.3%	78.1	$27,642
Nicholas County	24,496	64.1%	94.1%	61.2%	37.9	$21,941
Ohio County	41,411	95.8%	100.0%	95.8%	391.3	$30,258
Pendleton County	6,969	56.8%	70.7%	48.0%	10.0	$24,739
Pleasants County	7,460	64.2%	98.0%	64.0%	57.3	$27,522
Pocahontas County	8,247	70.6%	42.2%	34.3%	8.8	$24,109
Preston County	33,432	69.1%	98.9%	68.6%	51.5	$23,337
Putnam County	56,450	85.7%	99.5%	85.6%	163.3	$31,277
Raleigh County	73,361	89.3%	96.9%	87.0%	121.2	$24,170
Randolph County	28,695	81.8%	92.8%	80.1%	27.6	$24,162
Ritchie County	9,554	42.3%	87.7%	41.9%	21.1	$24,442
Roane County	13,688	42.2%	94.9%	41.2%	28.3	$20,574

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Summers County	12,573	54.6%	99.7%	54.4%	34.9	$20,784
Taylor County	16,695	87.0%	99.9%	87.0%	96.6	$24,258
Tucker County	6,839	59.1%	87.8%	54.6%	16.3	$23,670
Tyler County	8,591	42.6%	92.8%	42.2%	33.5	$24,422
Upshur County	24,176	84.8%	95.9%	84.6%	68.2	$21,701
Wayne County	39,402	78.4%	96.8%	77.1%	77.9	$21,240
Webster County	8,114	66.3%	83.2%	62.4%	14.7	$20,507
Wetzel County	15,065	50.6%	79.9%	50.3%	42.1	$22,789
Wirt County	5,821	43.8%	92.8%	43.8%	25.0	$21,314
Wood County	83,518	91.1%	99.9%	91.1%	228.0	$27,201
Wyoming County	20,394	92.6%	85.7%	80.3%	40.8	$20,831
Wisconsin	**5,822,344**	**93.2%**	**100.0%**	**93.2%**	**107.5**	**$33,032**
Adams County	20,220	80.5%	100.0%	80.5%	31.3	$25,591
Ashland County	15,562	65.3%	99.8%	65.3%	14.9	$23,505
Barron County	45,244	76.2%	99.9%	76.2%	52.4	$28,326
Bayfield County	15,036	87.5%	99.3%	87.1%	10.2	$29,886
Brown County	264,530	98.1%	100.0%	98.1%	499.4	$31,213
Buffalo County	13,031	95.6%	98.1%	93.7%	19.4	$29,613
Burnett County	15,414	89.4%	100.0%	89.4%	18.8	$28,424
Calumet County	50,089	97.1%	100.0%	97.1%	157.4	$34,015
Chippewa County	64,653	87.6%	100.0%	87.6%	64.1	$28,277
Clark County	34,773	54.3%	100.0%	54.3%	28.7	$24,114
Columbia County	57,530	82.1%	100.0%	82.1%	75.2	$33,012
Crawford County	16,131	72.8%	98.7%	72.0%	28.3	$26,038
Dane County	546,690	98.5%	100.0%	98.5%	456.6	$38,757
Dodge County	87,839	79.0%	100.0%	79.0%	100.3	$28,543
Door County	27,668	100.0%	100.0%	100.0%	57.4	$36,155
Douglas County	43,150	78.2%	100.0%	78.2%	33.1	$28,888
Dunn County	45,365	76.7%	100.0%	76.7%	53.4	$27,107
Eau Claire County	104,646	92.6%	100.0%	92.6%	164.0	$29,524
Florence County	4,295	90.7%	99.7%	90.4%	8.8	$30,674
Fond du Lac County	103,396	86.3%	100.0%	86.3%	143.7	$30,454
Forest County	9,004	65.5%	99.3%	65.4%	8.9	$24,808
Grant County	51,439	86.8%	99.7%	86.6%	44.9	$24,974

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Green County	36,959	99.8%	100.0%	99.7%	63.3	$31,959
Green Lake County	18,913	73.7%	100.0%	73.7%	54.1	$27,915
Iowa County	23,678	88.9%	100.0%	88.9%	31.0	$33,674
Iron County	5,687	63.0%	99.6%	62.9%	7.5	$28,550
Jackson County	20,641	59.3%	100.0%	59.3%	20.9	$26,037
Jefferson County	84,769	91.7%	100.0%	91.7%	152.3	$30,329
Juneau County	26,686	70.6%	100.0%	70.6%	34.8	$26,137
Kenosha County	169,560	100.0%	100.0%	100.0%	623.4	$30,740
Kewaunee County	20,431	100.0%	100.0%	100.0%	59.6	$30,098
La Crosse County	118,016	96.3%	100.0%	96.3%	261.3	$31,001
Lafayette County	16,665	70.8%	100.0%	70.8%	26.3	$28,198
Langlade County	19,189	87.2%	100.0%	87.2%	22.0	$26,212
Lincoln County	27,593	82.1%	100.0%	82.1%	31.4	$29,642
Manitowoc County	78,981	99.9%	100.0%	99.9%	134.1	$28,803
Marathon County	135,691	98.3%	100.0%	98.2%	87.8	$31,879
Marinette County	40,350	67.7%	99.9%	67.7%	28.8	$26,959
Marquette County	15,574	87.1%	100.0%	87.1%	34.2	$26,068
Menominee County	4,556	68.4%	99.9%	68.4%	12.7	$20,538
Milwaukee County	945,726	100.0%	100.0%	100.0%	3,917.6	$28,121
Monroe County	46,251	75.5%	100.0%	75.5%	51.3	$27,729
Oconto County	37,929	69.6%	100.0%	69.6%	38.0	$29,392
Oneida County	35,594	84.3%	100.0%	84.3%	32.0	$32,784
Outagamie County	187,882	94.5%	100.0%	94.5%	294.7	$32,098
Ozaukee County	89,220	98.9%	100.0%	98.9%	382.8	$47,980
Pepin County	7,287	97.3%	100.0%	97.3%	31.4	$29,227
Pierce County	42,751	95.8%	100.0%	95.8%	74.5	$32,525
Polk County	43,783	66.1%	100.0%	66.1%	47.9	$29,489
Portage County	70,772	91.3%	100.0%	91.3%	88.4	$29,742
Price County	13,351	36.3%	99.5%	36.3%	10.6	$27,569
Racine County	196,311	100.0%	100.0%	100.0%	590.4	$30,386
Richland County	17,252	51.4%	99.6%	51.4%	29.4	$26,379
Rock County	163,354	99.9%	100.0%	99.9%	227.5	$28,103
Rusk County	14,178	58.3%	100.0%	58.3%	15.5	$24,731
Sauk County	64,442	85.8%	100.0%	85.8%	77.6	$29,608

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Sawyer County	16,557	72.2%	99.3%	71.9%	13.2	$30,094
Shawano County	40,899	83.3%	100.0%	83.3%	45.8	$28,051
Sheboygan County	115,340	100.0%	100.0%	100.0%	225.6	$30,151
St. Croix County	90,677	87.0%	100.0%	87.0%	125.5	$37,419
Taylor County	20,343	59.3%	100.0%	59.3%	20.9	$26,881
Trempealeau County	29,649	92.4%	100.0%	92.4%	40.5	$27,733
Vernon County	30,822	96.0%	98.3%	94.3%	38.9	$26,726
Vilas County	22,194	70.9%	100.0%	70.9%	25.9	$31,206
Walworth County	103,867	98.1%	100.0%	98.1%	187.1	$30,593
Washburn County	15,720	67.4%	100.0%	67.4%	19.7	$29,336
Washington County	136,025	96.2%	100.0%	96.2%	315.8	$37,631
Waukesha County	404,192	100.0%	100.0%	100.0%	735.5	$44,301
Waupaca County	50,990	80.1%	100.0%	80.1%	68.2	$30,627
Waushara County	24,441	61.8%	100.0%	61.8%	39.0	$27,347
Winnebago County	171,902	99.7%	100.0%	99.7%	395.6	$33,000
Wood County	72,999	87.2%	100.0%	87.2%	92.0	$30,006
Wyoming	**578,750**	**92.7%**	**99.6%**	**92.6%**	**6.0**	**$33,522**
Albany County	38,879	94.8%	99.3%	94.7%	9.1	$26,665
Big Horn County	11,790	78.8%	99.7%	78.7%	3.8	$23,978
Campbell County	46,341	98.9%	100.0%	98.9%	9.6	$33,286
Carbon County	14,800	89.8%	98.0%	88.9%	1.9	$29,890
Converse County	13,822	96.4%	99.8%	96.4%	3.2	$32,069
Crook County	7,583	85.0%	99.5%	85.0%	2.7	$32,256
Fremont County	39,261	79.4%	99.8%	79.3%	4.3	$27,598
Goshen County	13,211	99.7%	100.0%	99.7%	5.9	$27,739
Hot Springs County	4,413	87.2%	99.6%	87.2%	2.2	$32,359
Johnson County	8,445	92.2%	100.0%	92.2%	2.0	$34,885
Laramie County	99,500	98.7%	100.0%	98.7%	37.0	$32,920
Lincoln County	19,824	88.9%	96.3%	86.2%	4.9	$30,106
Natrona County	79,858	94.5%	100.0%	94.5%	15.0	$33,082
Niobrara County	2,356	88.5%	99.0%	88.4%	0.9	$22,688
Park County	29,194	68.2%	99.4%	68.2%	4.2	$35,059
Platte County	8,393	93.0%	99.9%	93.0%	4.0	$31,553
Sheridan County	30,485	98.0%	100.0%	98.0%	12.1	$34,059

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Sublette County	9,831	95.4%	99.7%	95.3%	2.0	$33,231
Sweetwater County	42,343	94.2%	99.8%	94.0%	4.1	$32,624
Teton County	23,463	95.1%	97.9%	94.0%	5.9	$53,703
Uinta County	20,226	99.6%	99.8%	99.5%	9.7	$27,009
Washakie County	7,805	89.0%	99.7%	89.0%	3.5	$27,556
Weston County	6,927	89.4%	99.8%	89.2%	2.9	$29,152
American Samoa	**48,048**	**100.0%**	**0.0%**	**0.0%**	**628.4**	**NA**
Eastern District	19,931	100.0%	0.0%	0.0%	775.8	NA
Manu'a District	990	100.0%	0.0%	0.0%	44.4	NA
Swains Island	14	0.0%	0.0%	0.0%	14.9	NA
Western District	27,113	100.0%	0.0%	0.0%	985.7	NA
Guam	**168,485**	**67.0%**	**100.0%**	**67.0%**	**803.1**	**NA**
N. Mariana Isl.	**51,432**	**97.0%**	**99.2%**	**96.5%**	**282.1**	**NA**
Rota Municipality	2,412	81.3%	97.2%	80.3%	73.4	NA
Saipan Municipality	46,027	98.3%	99.6%	98.0%	1,003.0	NA
Tinian Municipality	2,993	89.3%	94.6%	87.7%	71.6	NA
Puerto Rico	**3,193,650**	**99.9%**	**100.0%**	**99.9%**	**932.8**	**$12,805**
Adjuntas Municipio	17,363	100.0%	100.0%	100.0%	260.4	$7,126
Aguada Municipio	36,691	100.0%	100.0%	100.0%	1,189.3	$9,287
Aguadilla Municipio	50,265	100.0%	100.0%	100.0%	1,376.0	$11,339
Aguas Buenas Municipio	24,814	100.0%	100.0%	100.0%	824.8	$10,188
Aibonito Municipio	22,108	100.0%	100.0%	100.0%	706.1	$10,630
Arecibo Municipio	81,966	100.0%	99.8%	99.8%	650.8	$10,203
Arroyo Municipio	17,238	100.0%	100.0%	100.0%	1,148.6	$7,979
Añasco Municipio	26,160	100.0%	100.0%	100.0%	665.9	$10,259
Barceloneta Municipio	23,727	100.0%	99.7%	99.7%	1,269.3	$9,170
Barranquitas Municipio	27,724	100.0%	100.0%	100.0%	809.4	$8,221
Bayamón Municipio	169,269	100.0%	100.0%	100.0%	3,818.9	$14,377
Cabo Rojo Municipio	47,515	100.0%	99.9%	99.9%	675.2	$9,245
Caguas Municipio	124,606	100.0%	100.0%	100.0%	2,126.5	$14,654
Camuy Municipio	30,504	100.0%	100.0%	100.0%	658.1	$10,252
Canóvanas Municipio	44,672	100.0%	100.0%	100.0%	1,359.3	$11,920

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Carolina Municipio	146,984	100.0%	100.0%	100.0%	3,243.2	$16,536
Cataño Municipio	23,121	100.0%	100.0%	100.0%	4,772.6	$12,195
Cayey Municipio	42,409	100.0%	100.0%	100.0%	816.6	$12,088
Ceiba Municipio	10,904	100.0%	100.0%	100.0%	375.5	$13,044
Ciales Municipio	15,808	100.0%	99.8%	99.8%	237.6	$8,398
Cidra Municipio	38,307	100.0%	100.0%	100.0%	1,063.5	$11,079
Coamo Municipio	38,331	100.0%	100.0%	100.0%	491.3	$10,761
Comerío Municipio	18,647	100.0%	100.0%	100.0%	656.6	$6,903
Corozal Municipio	32,293	100.0%	100.0%	100.0%	758.5	$7,619
Culebra Municipio	1,714	100.0%	99.3%	99.3%	147.5	$11,830
Dorado Municipio	36,138	100.0%	100.0%	100.0%	1,565.2	$16,570
Fajardo Municipio	29,454	100.0%	100.0%	100.0%	986.3	$11,663
Florida Municipio	11,317	100.0%	100.0%	100.0%	744.1	$8,871
Guayama Municipio	39,465	100.0%	100.0%	100.0%	607.2	$9,806
Guayanilla Municipio	17,623	97.6%	99.2%	97.2%	416.9	$8,717
Guaynabo Municipio	83,728	100.0%	100.0%	100.0%	3,036.0	$23,895
Gurabo Municipio	47,093	100.0%	100.0%	100.0%	1,688.7	$17,393
Guánica Municipio	15,383	100.0%	100.0%	100.0%	415.2	$7,430
Hatillo Municipio	39,216	100.0%	100.0%	100.0%	938.6	$10,659
Hormigueros Municipio	15,518	100.0%	100.0%	100.0%	1,367.9	$11,874
Humacao Municipio	50,651	100.0%	99.9%	99.9%	1,131.7	$12,093
Isabela Municipio	40,423	100.0%	100.0%	100.0%	730.9	$9,228
Jayuya Municipio	13,891	100.0%	99.5%	99.5%	311.9	$7,519
Juana Díaz Municipio	44,678	100.0%	100.0%	100.0%	741.2	$10,611
Juncos Municipio	38,153	100.0%	100.0%	100.0%	1,440.3	$9,316
Lajas Municipio	22,010	100.0%	100.0%	100.0%	367.1	$7,233
Lares Municipio	24,276	100.0%	99.9%	99.9%	395.1	$8,735
Las Marías Municipio	7,927	100.0%	100.0%	100.0%	171.0	$7,098
Las Piedras Municipio	37,001	100.0%	100.0%	100.0%	1,092.1	$11,239
Loíza Municipio	24,553	100.0%	99.9%	99.9%	1,267.8	$8,809
Luquillo Municipio	17,665	100.0%	100.0%	100.0%	684.4	$11,007
Manatí Municipio	37,287	100.0%	100.0%	100.0%	826.2	$10,946

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
Maricao Municipio	5,430	100.0%	100.0%	100.0%	148.3	$5,974
Maunabo Municipio	10,321	99.3%	99.0%	98.3%	489.9	$9,471
Mayagüez Municipio	71,530	100.0%	100.0%	100.0%	921.2	$10,678
Moca Municipio	34,891	100.0%	100.0%	100.0%	693.1	$8,806
Morovis Municipio	30,335	100.0%	100.0%	100.0%	780.4	$9,715
Naguabo Municipio	25,759	100.0%	100.0%	100.0%	498.6	$9,263
Naranjito Municipio	27,348	100.0%	100.0%	100.0%	998.1	$9,150
Orocovis Municipio	20,220	100.0%	100.0%	100.0%	317.8	$7,889
Patillas Municipio	16,211	91.0%	99.8%	90.8%	347.1	$9,223
Peñuelas Municipio	19,249	99.7%	100.0%	99.7%	431.4	$8,609
Ponce Municipio	131,881	100.0%	100.0%	100.0%	1,149.2	$11,368
Quebradillas Municipio	22,918	100.0%	100.0%	100.0%	1,010.4	$9,819
Rincón Municipio	13,655	100.0%	98.8%	98.8%	955.7	$11,650
Río Grande Municipio	48,025	100.0%	100.0%	100.0%	792.2	$10,931
Sabana Grande Municipio	21,712	100.0%	100.0%	100.0%	605.9	$9,560
Salinas Municipio	27,127	100.0%	100.0%	100.0%	391.1	$9,034
San Germán Municipio	30,227	100.0%	100.0%	100.0%	554.6	$9,874
San Juan Municipio	318,441	100.0%	100.0%	100.0%	6,655.4	$18,569
San Lorenzo Municipio	35,989	100.0%	100.0%	100.0%	677.7	$10,974
San Sebastián Municipio	35,528	100.0%	100.0%	100.0%	504.5	$8,739
Santa Isabel Municipio	21,206	100.0%	100.0%	100.0%	623.3	$10,895
Toa Alta Municipio	72,020	100.0%	100.0%	100.0%	2,665.8	$14,241
Toa Baja Municipio	74,271	100.0%	100.0%	100.0%	3,195.7	$12,763
Trujillo Alto Municipio	63,674	100.0%	100.0%	100.0%	3,066.5	$15,886
Utuado Municipio	27,395	100.0%	99.1%	99.1%	241.3	$8,639
Vega Alta Municipio	36,061	100.0%	100.0%	100.0%	1,300.5	$11,678
Vega Baja Municipio	50,023	100.0%	100.0%	100.0%	1,090.9	$10,601
Vieques Municipio	8,386	99.8%	99.5%	99.3%	165.2	$11,156
Villalba Municipio	21,372	100.0%	100.0%	100.0%	599.7	$10,677
Yabucoa Municipio	32,280	98.2%	100.0%	98.2%	584.6	$9,148
Yauco Municipio	33,575	100.0%	99.7%	99.7%	492.4	$8,339

State, County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/ 3 Mbps	% of Pop. with Mobile 5/ 1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income ($2018)
U.S. Virgin Isl.	**106,235**	**100.0%**	**98.1%**	**98.1%**	**790.9**	**NA**
St. Croix Island	50,520	100.0%	99.7%	99.7%	606.3	NA
St. John Island	4,163	100.0%	89.9%	89.9%	211.4	NA
St. Thomas Island	51,552	100.0%	97.1%	97.1%	1,646.5	NA

APPENDIX E

Deployment of Fixed Terrestrial Fixed 25/3 Mbps and Mobile 4G LTE with a Minimum Advertised Speed of 5/1 Mbps Services By State and County Segmented by Urban and Rural Areas (December 31, 2019)[5]

	Urban Areas				Rural Areas			
County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both
Alabama	**2,877,446**	**97.8%**	**100.0%**	**97.8%**	**2,024,944**	**73.0%**	**99.9%**	**73.0%**
Autauga County	31,897	100.0%	100.0%	100.0%	23,972	54.7%	100.0%	54.7%
Baldwin County	122,445	90.1%	99.8%	89.9%	100,785	75.7%	99.8%	75.6%
Barbour County	8,363	100.0%	100.0%	100.0%	16,323	53.0%	100.0%	53.0%
Bibb County	7,001	27.2%	100.0%	27.2%	15,393	36.6%	99.9%	36.6%
Blount County	5,755	99.0%	100.0%	99.0%	52,071	73.2%	100.0%	73.2%
Bullock County	4,544	90.5%	100.0%	90.5%	5,557	96.2%	100.0%	96.2%
Butler County	5,559	100.0%	100.0%	100.0%	13,889	55.4%	100.0%	55.4%
Calhoun County	75,785	98.1%	100.0%	98.1%	37,820	82.7%	100.0%	82.7%
Chambers County	17,038	99.9%	100.0%	99.9%	16,216	68.3%	100.0%	68.3%
Cherokee County	3,665	100.0%	100.0%	100.0%	22,531	98.7%	100.0%	98.7%
Chilton County	5,838	67.6%	100.0%	67.6%	38,586	62.8%	100.0%	62.8%
Choctaw County					12,589	21.5%	99.7%	21.5%
Clarke County	5,789	96.0%	100.0%	96.0%	17,833	42.8%	98.9%	42.8%
Clay County					13,235	42.9%	100.0%	42.9%
Cleburne County					14,910	17.3%	99.7%	17.3%
Coffee County	26,998	100.0%	100.0%	100.0%	25,342	82.0%	100.0%	82.0%
Colbert County	30,863	98.4%	100.0%	98.4%	24,378	65.9%	100.0%	65.9%
Conecuh County	1,627	98.5%	100.0%	98.5%	10,440	35.8%	100.0%	35.8%
Coosa County					10,663	78.3%	100.0%	78.3%
Covington County	11,197	96.5%	100.0%	96.5%	25,852	77.7%	100.0%	77.7%
Crenshaw County					13,772	72.9%	100.0%	72.9%
Cullman County	22,293	99.8%	100.0%	99.8%	61,475	70.6%	100.0%	70.6%
Dale County	23,731	100.0%	100.0%	100.0%	25,441	89.9%	100.0%	89.9%

[5] Blank entries mean that there is no population for the pertinent segment (urban or rural) in that particular county.

	Urban Areas				Rural Areas			
County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both
Dallas County	20,157	99.8%	100.0%	99.8%	17,039	48.7%	100.0%	48.7%
DeKalb County	6,975	100.0%	100.0%	100.0%	64,538	98.7%	100.0%	98.7%
Elmore County	36,639	99.8%	100.0%	99.8%	44,570	86.8%	100.0%	86.8%
Escambia County	13,602	99.3%	100.0%	99.3%	23,031	60.2%	99.5%	60.2%
Etowah County	63,681	99.2%	100.0%	99.2%	38,587	88.4%	100.0%	88.4%
Fayette County	2,812	24.2%	100.0%	24.2%	13,490	19.0%	100.0%	19.0%
Franklin County	9,303	99.9%	100.0%	99.9%	22,059	51.7%	100.0%	51.7%
Geneva County	2,744	100.0%	100.0%	100.0%	23,527	54.8%	100.0%	54.8%
Greene County					8,111	0.9%	100.0%	0.9%
Hale County	1,476	100.0%	100.0%	100.0%	13,175	46.0%	100.0%	46.0%
Henry County	2,098	94.8%	100.0%	94.8%	15,107	59.8%	99.9%	59.8%
Houston County	69,361	99.3%	100.0%	99.3%	36,521	64.5%	100.0%	64.5%
Jackson County	11,411	100.0%	100.0%	100.0%	40,215	95.4%	99.4%	94.8%
Jefferson County	593,306	99.9%	100.0%	99.9%	65,267	91.6%	99.7%	91.6%
Lamar County					13,805	43.1%	100.0%	43.1%
Lauderdale County	46,502	98.0%	100.0%	98.0%	46,227	65.3%	100.0%	65.3%
Lawrence County	2,501	100.0%	100.0%	100.0%	30,423	51.6%	99.8%	51.6%
Lee County	114,655	99.8%	100.0%	99.8%	49,887	88.3%	100.0%	88.3%
Limestone County	39,730	99.6%	100.0%	99.6%	59,172	84.9%	100.0%	84.9%
Lowndes County					9,726	14.4%	99.8%	14.4%
Macon County	6,524	99.0%	100.0%	99.0%	10,802	44.5%	100.0%	44.5%
Madison County	302,728	96.9%	100.0%	96.9%	70,162	94.5%	100.0%	94.5%
Marengo County	5,392	0.3%	100.0%	0.3%	13,471	23.7%	100.0%	23.7%
Marion County	3,181	96.4%	100.0%	96.4%	26,528	80.7%	100.0%	80.7%
Marshall County	44,946	99.6%	100.0%	99.6%	51,826	92.8%	100.0%	92.8%
Mobile County	329,932	97.1%	100.0%	97.1%	83,278	79.2%	100.0%	79.2%
Monroe County	4,035	100.0%	100.0%	100.0%	16,698	87.1%	98.4%	86.6%
Montgomery County	201,973	99.6%	100.0%	99.6%	24,512	80.4%	100.0%	80.4%
Morgan County	73,160	99.7%	100.0%	99.7%	46,516	79.0%	100.0%	79.0%
Perry County					8,923	0.1%	99.9%	0.1%
Pickens County					19,930	57.2%	100.0%	57.2%

	Urban Areas				Rural Areas			
County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both
Pike County	15,319	99.7%	100.0%	99.7%	17,795	86.4%	99.8%	86.1%
Randolph County	4,120	100.0%	100.0%	100.0%	18,602	56.3%	100.0%	56.3%
Russell County	35,282	100.0%	100.0%	100.0%	22,679	72.6%	100.0%	72.6%
Shelby County	162,024	99.8%	100.0%	99.8%	55,674	82.9%	100.0%	82.9%
St. Clair County	23,810	93.2%	100.0%	93.2%	65,701	87.5%	100.0%	87.5%
Sumter County					12,427	46.7%	100.0%	46.7%
Talladega County	34,686	99.9%	100.0%	99.9%	45,292	66.9%	100.0%	66.9%
Tallapoosa County	10,411	100.0%	100.0%	100.0%	29,956	88.8%	100.0%	88.8%
Tuscaloosa County	152,866	95.8%	100.0%	95.8%	56,489	82.7%	99.9%	82.7%
Walker County	16,256	99.8%	100.0%	99.8%	47,265	69.5%	100.0%	69.5%
Washington County					16,326	31.1%	99.1%	30.8%
Wilcox County					10,373	41.4%	100.0%	41.4%
Winston County	3,460	99.6%	100.0%	99.6%	20,169	56.4%	99.9%	56.4%
Alaska	**469,188**	**97.2%**	**98.3%**	**97.2%**	**262,036**	**63.7%**	**78.0%**	**62.5%**
Aleutians East Borough					3,337	0.0%	0.0%	0.0%
Aleutians West Census Area					5,634	0.0%	51.0%	0.0%
Anchorage Municipality	275,119	99.9%	100.0%	99.9%	12,881	95.1%	96.7%	91.8%
Bethel Census Area	4,597	0.0%	0.0%	0.0%	13,789	0.0%	0.0%	0.0%
Bristol Bay Borough					836	0.0%	0.0%	0.0%
Denali Borough					2,097	55.4%	97.2%	53.9%
Dillingham Census Area					4,916	0.0%	0.0%	0.0%
Fairbanks North Star Borough	66,924	98.4%	100.0%	98.4%	29,925	70.0%	99.3%	70.0%
Haines Borough					2,530	91.9%	78.0%	74.1%
Hoonah-Angoon Census Area					2,148	25.0%	78.9%	20.3%
Juneau City and Borough	25,063	100.0%	100.0%	100.0%	6,911	96.7%	99.5%	96.5%
Kenai Peninsula Borough	11,751	100.0%	100.0%	100.0%	46,957	96.9%	97.3%	94.9%

	Urban Areas				Rural Areas			
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Ketchikan Gateway Borough	10,603	100.0%	99.9%	99.9%	3,298	95.6%	98.5%	94.6%
Kodiak Island Borough	8,719	100.0%	100.0%	100.0%	4,279	57.2%	79.3%	55.3%
Kusilvak Census Area					7,996	0.0%	7.5%	0.0%
Lake and Peninsula Borough					1,592	0.0%	0.0%	0.0%
Matanuska-Susitna Borough	49,391	99.6%	100.0%	99.6%	58,926	89.1%	99.4%	88.8%
Nome Census Area	3,267	97.8%	100.0%	97.8%	6,737	4.8%	35.0%	4.8%
North Slope Borough	3,845	1.6%	100.0%	1.6%	5,987	0.0%	59.3%	0.0%
Northwest Arctic Borough	3,215	1.9%	0.0%	0.0%	4,406	0.0%	22.4%	0.0%
Petersburg Borough					3,263	79.7%	94.1%	76.7%
Prince of Wales-Hyder Census Area					6,203	2.8%	87.7%	2.8%
Sitka City and Borough	6,694	100.0%	100.0%	100.0%	1,799	89.2%	96.4%	89.2%
Skagway Municipality					1,183	96.7%	79.6%	78.7%
Southeast Fairbanks Census Area					6,893	51.9%	83.8%	50.7%
Valdez-Cordova Census Area					9,202	84.4%	96.5%	82.9%
Wrangell City and Borough					2,502	89.6%	73.8%	70.5%
Yakutat City and Borough					579	0.0%	0.0%	0.0%
Yukon-Koyukuk Census Area					5,230	1.3%	12.8%	1.3%
Arizona	**6,356,510**	**98.9%**	**100.0%**	**98.9%**	**922,084**	**66.5%**	**97.3%**	**66.2%**
Apache County	17,235	36.3%	100.0%	36.3%	54,651	18.8%	82.5%	17.1%
Cochise County	78,891	93.0%	100.0%	93.0%	47,031	48.5%	99.8%	48.5%
Coconino County	93,014	89.3%	100.0%	89.3%	50,462	33.8%	97.8%	33.8%

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Gila County	31,562	86.4%	100.0%	86.4%	22,456	56.4%	96.2%	55.2%
Graham County	20,028	95.6%	100.0%	95.6%	18,809	55.2%	98.9%	55.0%
Greenlee County	4,556	98.0%	100.0%	98.0%	4,942	11.2%	98.6%	11.2%
La Paz County	8,929	60.3%	100.0%	60.3%	12,179	33.5%	99.9%	33.5%
Maricopa County	4,260,956	100.0%	100.0%	100.0%	224,398	87.2%	99.9%	87.2%
Mohave County	156,820	92.0%	100.0%	92.0%	55,358	31.0%	98.8%	30.9%
Navajo County	48,455	87.0%	100.0%	87.0%	62,469	37.9%	82.8%	36.1%
Pima County	949,216	99.8%	100.0%	99.8%	98,057	86.5%	99.5%	86.4%
Pinal County	320,342	98.1%	100.0%	98.1%	142,394	85.3%	100.0%	85.3%
Santa Cruz County	33,349	100.0%	100.0%	100.0%	13,149	89.9%	98.9%	88.9%
Yavapai County	147,836	99.7%	100.0%	99.7%	87,263	81.0%	99.7%	80.8%
Yuma County	185,321	98.1%	100.0%	98.1%	28,466	34.7%	99.7%	34.7%
Arkansas	**1,675,067**	**95.2%**	**100.0%**	**95.2%**	**1,342,675**	**63.3%**	**100.0%**	**63.3%**
Arkansas County	11,108	27.0%	100.0%	27.0%	6,378	23.7%	100.0%	23.7%
Ashley County	9,285	74.4%	100.0%	74.4%	10,372	32.5%	100.0%	32.5%
Baxter County	13,985	98.5%	100.0%	98.5%	27,947	66.7%	99.8%	66.5%
Benton County	196,628	98.7%	100.0%	98.7%	82,498	91.7%	100.0%	91.7%
Boone County	14,058	99.4%	100.0%	99.4%	23,374	85.4%	100.0%	85.4%
Bradley County	5,435	99.2%	100.0%	99.2%	5,328	29.0%	100.0%	29.0%
Calhoun County					5,189	8.5%	100.0%	8.5%
Carroll County	7,514	100.0%	100.0%	100.0%	20,863	96.7%	100.0%	96.7%
Chicot County	4,111	96.6%	100.0%	96.6%	6,007	59.8%	100.0%	59.8%
Clark County	9,597	85.7%	100.0%	85.7%	12,722	79.4%	100.0%	79.4%
Clay County	5,570	72.2%	100.0%	72.2%	8,981	51.6%	100.0%	51.6%
Cleburne County	5,997	97.7%	100.0%	97.7%	18,922	43.2%	100.0%	43.2%
Cleveland County					7,956	83.9%	100.0%	83.9%
Columbia County	9,438	87.6%	100.0%	87.6%	14,019	43.6%	100.0%	43.6%
Conway County	6,160	96.7%	100.0%	96.7%	14,686	26.6%	100.0%	26.6%
Craighead County	71,586	89.7%	100.0%	89.7%	38,725	71.2%	100.0%	71.2%
Crawford County	29,923	98.9%	100.0%	98.9%	33,334	76.8%	100.0%	76.8%
Crittenden County	37,165	97.2%	100.0%	97.2%	10,790	20.2%	100.0%	20.2%

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Cross County	7,391	85.2%	100.0%	85.2%	9,028	37.7%	100.0%	37.7%
Dallas County	3,138	71.3%	100.0%	71.3%	3,871	46.1%	100.0%	46.1%
Desha County	7,328	97.1%	100.0%	97.1%	4,033	21.9%	100.0%	21.9%
Drew County	9,214	97.3%	100.0%	97.3%	9,005	42.4%	100.0%	42.4%
Faulkner County	75,049	99.9%	100.0%	99.9%	50,957	88.0%	100.0%	88.0%
Franklin County	2,595	51.4%	100.0%	51.4%	15,120	20.3%	100.0%	20.3%
Fulton County	871	81.4%	100.0%	81.4%	11,604	42.0%	100.0%	42.0%
Garland County	62,111	99.6%	100.0%	99.6%	37,275	92.6%	100.0%	92.6%
Grant County	4,483	97.9%	100.0%	97.9%	13,782	58.7%	100.0%	58.7%
Greene County	25,512	100.0%	100.0%	100.0%	19,813	46.6%	100.0%	46.6%
Hempstead County	9,125	84.8%	100.0%	84.8%	12,407	52.9%	100.0%	52.9%
Hot Spring County	11,323	79.9%	100.0%	79.9%	22,448	49.1%	100.0%	49.1%
Howard County	4,010	0.5%	100.0%	0.5%	9,192	32.3%	100.0%	32.3%
Independence County	11,706	98.9%	100.0%	98.9%	26,118	61.4%	100.0%	61.4%
Izard County					13,629	60.5%	100.0%	60.5%
Jackson County	5,708	87.9%	100.0%	87.9%	11,011	58.3%	100.0%	58.3%
Jefferson County	46,749	79.3%	100.0%	79.3%	20,075	35.1%	100.0%	35.1%
Johnson County	6,865	95.9%	100.0%	95.9%	19,713	50.4%	99.5%	50.4%
Lafayette County					6,624	16.6%	100.0%	16.6%
Lawrence County	5,990	94.2%	100.0%	94.2%	10,416	37.1%	100.0%	37.1%
Lee County	3,237	66.9%	100.0%	66.9%	5,620	12.0%	100.0%	12.0%
Lincoln County					13,024	30.4%	100.0%	30.4%
Little River County	3,641	87.0%	100.0%	87.0%	8,618	35.4%	100.0%	35.4%
Logan County	6,321	38.9%	100.0%	38.9%	15,145	34.2%	100.0%	34.2%
Lonoke County	39,149	98.9%	100.0%	98.9%	34,160	71.5%	100.0%	71.5%
Madison County					16,576	45.4%	100.0%	45.4%
Marion County					16,694	60.8%	100.0%	60.8%
Miller County	25,469	99.1%	100.0%	99.1%	17,788	85.4%	100.0%	85.4%
Mississippi County	25,013	95.7%	100.0%	95.7%	15,638	87.8%	100.0%	87.8%
Monroe County	2,145	1.2%	100.0%	1.2%	4,556	7.6%	100.0%	7.6%
Montgomery County					8,986	52.9%	100.0%	52.9%

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Nevada County	2,315	88.4%	100.0%	88.4%	5,937	25.2%	100.0%	25.2%
Newton County					7,753	15.2%	99.5%	15.2%
Ouachita County	9,717	82.6%	100.0%	82.6%	13,665	49.3%	100.0%	49.3%
Perry County					10,455	76.9%	99.6%	76.9%
Phillips County	9,143	86.9%	100.0%	86.9%	8,639	61.6%	100.0%	61.6%
Pike County					10,718	53.1%	100.0%	53.1%
Poinsett County	6,645	96.6%	100.0%	96.6%	16,883	72.2%	100.0%	72.2%
Polk County	5,213	99.4%	100.0%	99.4%	14,751	50.1%	100.0%	50.1%
Pope County	28,588	94.9%	100.0%	94.9%	35,484	67.1%	99.9%	67.1%
Prairie County					8,062	13.7%	100.0%	13.7%
Pulaski County	342,541	98.8%	100.0%	98.8%	49,370	94.9%	100.0%	94.9%
Randolph County	5,711	98.6%	100.0%	98.6%	12,247	37.8%	99.1%	37.5%
Saline County	75,332	99.7%	100.0%	99.7%	47,093	78.6%	100.0%	78.6%
Scott County	2,713	56.2%	100.0%	56.2%	7,568	30.5%	99.7%	30.4%
Searcy County					7,881	55.2%	99.3%	55.2%
Sebastian County	100,417	99.5%	100.0%	99.5%	27,409	82.5%	100.0%	82.5%
Sevier County	5,755	98.9%	100.0%	98.9%	11,252	70.0%	100.0%	70.0%
Sharp County	3,416	100.0%	100.0%	100.0%	14,026	32.0%	100.0%	32.0%
St. Francis County	10,926	63.5%	100.0%	63.5%	14,068	17.9%	100.0%	17.9%
Stone County					12,506	41.5%	99.3%	40.9%
Union County	17,202	95.6%	100.0%	95.6%	21,480	45.9%	99.9%	45.9%
Van Buren County					16,545	44.7%	99.9%	44.7%
Washington County	167,613	99.1%	100.0%	99.1%	71,569	89.9%	100.0%	89.9%
White County	35,570	88.6%	100.0%	88.6%	43,183	57.8%	100.0%	57.8%
Woodruff County					6,320	27.3%	100.0%	27.3%
Yell County	4,547	96.2%	100.0%	96.2%	16,794	83.8%	99.9%	83.7%
California	**37,097,097**	**99.4%**	**100.0%**	**99.4%**	**2,415,048**	**84.2%**	**99.0%**	**83.9%**
Alameda County	1,657,705	100.0%	100.0%	100.0%	13,624	93.1%	97.5%	90.6%
Alpine County					1,129	18.2%	95.8%	16.3%
Amador County	14,768	99.4%	100.0%	99.4%	24,983	96.5%	99.6%	96.5%
Butte County	172,495	99.3%	100.0%	99.3%	46,691	96.1%	98.4%	95.4%

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Calaveras County	11,045	100.0%	100.0%	100.0%	34,860	95.2%	99.6%	95.2%
Colusa County	14,362	93.0%	100.0%	93.0%	7,185	64.7%	98.9%	64.7%
Contra Costa County	1,133,536	99.6%	100.0%	99.6%	19,986	79.8%	99.9%	79.8%
Del Norte County	18,434	99.9%	100.0%	99.9%	9,378	81.2%	91.2%	75.1%
El Dorado County	122,605	99.8%	100.0%	99.8%	70,236	95.9%	99.8%	95.8%
Fresno County	867,262	100.0%	100.0%	100.0%	131,832	97.3%	99.6%	97.1%
Glenn County	16,512	100.0%	100.0%	100.0%	11,881	92.4%	99.7%	92.3%
Humboldt County	93,915	100.0%	100.0%	100.0%	41,643	82.8%	96.1%	82.2%
Imperial County	144,928	98.2%	100.0%	98.2%	36,287	35.6%	100.0%	35.6%
Inyo County	9,603	98.6%	100.0%	98.6%	8,436	79.9%	95.4%	78.7%
Kern County	771,306	99.6%	100.0%	99.6%	128,891	75.8%	99.6%	75.7%
Kings County	134,393	100.0%	100.0%	100.0%	18,536	98.8%	100.0%	98.8%
Lake County	42,430	99.3%	100.0%	99.3%	21,956	82.0%	99.1%	81.9%
Lassen County	10,124	100.0%	100.0%	100.0%	20,449	87.1%	99.8%	87.1%
Los Angeles County	9,947,996	99.9%	100.0%	99.9%	91,111	64.1%	99.0%	63.3%
Madera County	102,362	100.0%	100.0%	100.0%	54,965	99.1%	99.9%	99.1%
Marin County	240,977	99.7%	99.9%	99.7%	17,849	78.9%	100.0%	78.9%
Mariposa County					17,203	82.6%	97.5%	82.6%
Mendocino County	46,651	99.8%	100.0%	99.7%	40,098	77.9%	92.2%	77.3%
Merced County	229,400	100.0%	100.0%	100.0%	48,277	99.8%	100.0%	99.7%
Modoc County	2,536	42.4%	100.0%	42.4%	6,305	46.5%	96.7%	46.2%
Mono County	7,295	92.0%	100.0%	92.0%	7,149	75.5%	96.0%	72.6%
Monterey County	380,525	100.0%	100.0%	100.0%	53,536	91.4%	96.0%	88.2%
Napa County	118,177	99.1%	100.0%	99.1%	19,567	97.8%	99.9%	97.7%
Nevada County	56,988	98.1%	100.0%	98.1%	42,767	94.9%	99.9%	94.9%
Orange County	3,162,614	98.7%	100.0%	98.7%	13,078	87.8%	100.0%	87.8%
Placer County	328,472	99.6%	100.0%	99.6%	69,852	94.1%	99.5%	94.1%
Plumas County	4,871	99.7%	100.0%	99.7%	13,936	94.9%	97.3%	92.9%
Riverside County	2,290,606	99.6%	100.0%	99.6%	179,932	71.3%	99.9%	71.3%
Sacramento County	1,513,084	98.4%	100.0%	98.4%	38,970	92.1%	100.0%	92.1%
San Benito County	43,803	100.0%	100.0%	100.0%	18,999	96.1%	98.2%	95.2%

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San Bernardino County	2,014,528	99.8%	100.0%	99.8%	165,545	61.0%	99.8%	60.9%
San Diego County	3,187,904	98.4%	100.0%	98.4%	150,426	91.2%	99.9%	91.1%
San Francisco County	881,547	100.0%	100.0%	100.0%	2	0.0%	50.0%	0.0%
San Joaquin County	686,664	100.0%	100.0%	100.0%	75,478	99.2%	100.0%	99.2%
San Luis Obispo County	229,985	97.0%	100.0%	97.0%	53,126	87.1%	99.4%	86.8%
San Mateo County	748,952	100.0%	100.0%	100.0%	17,621	100.0%	97.5%	97.4%
Santa Barbara County	415,971	96.3%	99.9%	96.2%	30,528	65.3%	98.8%	64.8%
Santa Clara County	1,896,634	100.0%	100.0%	100.0%	31,218	100.0%	98.9%	98.9%
Santa Cruz County	237,399	100.0%	99.9%	99.9%	35,814	100.0%	99.8%	99.8%
Shasta County	126,180	99.8%	100.0%	99.8%	53,900	79.1%	99.1%	78.8%
Sierra County	9	100.0%	100.0%	100.0%	2,996	65.9%	76.3%	65.9%
Siskiyou County	13,896	99.7%	100.0%	99.7%	29,643	79.8%	96.1%	79.3%
Solano County	421,128	96.6%	100.0%	96.6%	26,513	67.8%	100.0%	67.8%
Sonoma County	425,953	98.8%	100.0%	98.8%	68,383	84.0%	99.1%	83.9%
Stanislaus County	503,865	100.0%	100.0%	100.0%	46,795	100.0%	99.7%	99.7%
Sutter County	81,588	100.0%	100.0%	100.0%	15,383	95.8%	100.0%	95.8%
Tehama County	30,794	100.0%	100.0%	100.0%	34,290	96.3%	99.6%	96.3%
Trinity County					12,285	24.8%	86.2%	23.6%
Tulare County	386,641	100.0%	100.0%	100.0%	79,552	97.0%	99.1%	96.7%
Tuolumne County	27,476	99.9%	100.0%	99.9%	27,002	98.8%	99.2%	98.4%
Ventura County	813,027	99.8%	100.0%	99.8%	32,979	69.1%	98.9%	68.2%
Yolo County	200,108	97.1%	100.0%	97.1%	20,392	64.3%	99.9%	64.3%
Yuba County	55,068	100.0%	100.0%	100.0%	23,600	98.5%	98.3%	97.4%
Colorado	**4,834,654**	**99.3%**	**100.0%**	**99.3%**	**923,626**	**86.4%**	**99.3%**	**86.1%**
Adams County	484,578	99.8%	100.0%	99.8%	32,790	91.5%	100.0%	91.5%
Alamosa County	9,641	100.0%	100.0%	100.0%	6,592	99.4%	100.0%	99.4%
Arapahoe County	639,058	99.9%	100.0%	99.9%	17,475	94.7%	100.0%	94.7%
Archuleta County	5,261	100.0%	100.0%	100.0%	8,768	80.5%	98.7%	80.5%

	Urban Areas				Rural Areas			
County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both
Baca County					3,581	34.3%	100.0%	34.3%
Bent County	3,358	48.3%	100.0%	48.3%	2,219	22.4%	99.5%	22.4%
Boulder County	292,219	98.4%	100.0%	98.4%	33,977	90.4%	100.0%	90.4%
Broomfield County	68,981	98.7%	100.0%	98.7%	1,473	84.2%	100.0%	84.2%
Chaffee County	12,187	89.3%	100.0%	89.3%	8,169	88.1%	97.3%	85.7%
Cheyenne County					1,831	54.8%	100.0%	54.8%
Clear Creek County					9,699	90.1%	99.7%	90.1%
Conejos County					8,205	99.9%	99.2%	99.0%
Costilla County					3,886	95.5%	99.8%	95.4%
Crowley County					6,056	42.5%	100.0%	42.5%
Custer County					5,068	51.5%	99.4%	51.3%
Delta County	11,406	100.0%	100.0%	100.0%	19,756	99.2%	99.6%	98.9%
Denver County	721,229	100.0%	100.0%	100.0%	5,787	99.8%	100.0%	99.8%
Dolores County					2,055	29.1%	97.5%	28.3%
Douglas County	297,488	100.0%	100.0%	100.0%	53,658	100.0%	100.0%	100.0%
Eagle County	42,163	95.3%	100.0%	95.3%	12,964	85.8%	97.0%	85.6%
El Paso County	630,037	99.9%	100.0%	99.9%	90,351	85.6%	100.0%	85.6%
Elbert County					26,716	100.0%	100.0%	100.0%
Fremont County	33,925	92.6%	100.0%	92.6%	13,914	67.6%	100.0%	67.6%
Garfield County	43,596	99.8%	100.0%	99.8%	16,464	99.4%	98.1%	97.5%
Gilpin County					6,240	87.7%	100.0%	87.7%
Grand County	2,458	99.1%	100.0%	99.1%	13,276	82.1%	99.6%	82.0%
Gunnison County	6,582	100.0%	100.0%	100.0%	10,880	84.9%	87.3%	79.4%
Hinsdale County					820	83.4%	2.0%	0.0%
Huerfano County	2,892	99.7%	100.0%	99.7%	4,005	51.1%	99.6%	51.1%
Jackson County					1,392	85.6%	98.9%	85.6%
Jefferson County	533,141	100.0%	100.0%	100.0%	49,731	95.2%	100.0%	95.2%
Kiowa County					1,406	55.1%	100.0%	55.1%
Kit Carson County	2,854	100.0%	100.0%	100.0%	4,243	96.3%	100.0%	96.3%
La Plata County	21,468	100.0%	100.0%	100.0%	34,753	96.7%	100.0%	96.7%
Lake County	5,258	98.5%	100.0%	98.5%	2,869	80.2%	98.3%	78.9%

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Larimer County	294,907	96.4%	100.0%	96.4%	61,982	81.9%	98.8%	81.8%
Las Animas County	8,573	97.0%	100.0%	97.0%	5,933	34.9%	100.0%	34.9%
Lincoln County					5,699	55.2%	100.0%	55.2%
Logan County	14,790	100.0%	100.0%	100.0%	7,612	78.7%	100.0%	78.7%
Mesa County	132,990	99.8%	100.0%	99.8%	21,220	76.8%	99.5%	76.7%
Mineral County					769	89.2%	75.6%	69.1%
Moffat County	9,360	100.0%	100.0%	100.0%	3,923	82.5%	98.3%	82.2%
Montezuma County	8,196	100.0%	100.0%	100.0%	17,987	77.2%	99.5%	76.9%
Montrose County	22,676	100.0%	100.0%	100.0%	20,082	88.4%	99.8%	88.4%
Morgan County	19,039	99.5%	100.0%	99.5%	10,022	70.4%	100.0%	70.4%
Otero County	11,826	99.5%	100.0%	99.5%	6,452	59.4%	100.0%	59.4%
Ouray County					4,952	96.5%	100.0%	96.5%
Park County					18,845	91.6%	98.7%	90.3%
Phillips County					4,265	100.0%	100.0%	100.0%
Pitkin County	9,465	98.2%	100.0%	98.2%	8,302	97.5%	93.2%	91.7%
Prowers County	7,245	100.0%	100.0%	100.0%	4,927	26.4%	100.0%	26.4%
Pueblo County	141,052	98.5%	100.0%	98.5%	27,372	85.0%	99.8%	84.8%
Rio Blanco County					6,324	72.4%	95.2%	72.4%
Rio Grande County	4,268	100.0%	100.0%	100.0%	6,999	98.2%	99.7%	97.8%
Routt County	12,818	100.0%	100.0%	100.0%	12,820	91.9%	96.7%	89.4%
Saguache County					6,824	80.0%	98.7%	79.4%
San Juan County					728	65.5%	94.5%	65.5%
San Miguel County					8,179	71.1%	100.0%	71.1%
Sedgwick County					2,248	82.4%	100.0%	82.4%
Summit County	22,368	97.6%	100.0%	97.6%	8,643	68.8%	100.0%	68.8%
Teller County	8,956	99.0%	100.0%	99.0%	16,432	80.3%	100.0%	80.3%
Washington County					4,908	82.3%	100.0%	82.3%
Weld County	232,932	97.5%	100.0%	97.5%	91,502	89.7%	100.0%	89.7%
Yuma County	3,413	100.0%	100.0%	100.0%	6,606	98.0%	100.0%	98.0%
Connecticut	**3,132,437**	**99.2%**	**100.0%**	**99.2%**	**432,850**	**99.3%**	**100.0%**	**99.3%**
Fairfield County	898,093	99.3%	99.9%	99.3%	45,239	99.0%	100.0%	99.0%

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Hartford County	842,705	99.0%	100.0%	99.0%	49,015	99.5%	100.0%	99.5%
Litchfield County	102,859	99.3%	100.0%	99.3%	77,474	99.0%	100.0%	99.0%
Middlesex County	121,700	99.4%	100.0%	99.4%	40,736	99.5%	100.0%	99.5%
New Haven County	822,978	99.8%	100.0%	99.8%	31,779	99.8%	100.0%	99.8%
New London County	194,339	98.7%	100.0%	98.7%	70,867	99.0%	100.0%	99.0%
Tolland County	92,283	95.9%	100.0%	95.9%	58,438	99.6%	100.0%	99.6%
Windham County	57,480	99.6%	100.0%	99.6%	59,302	99.6%	100.0%	99.6%
Delaware	**798,131**	**98.2%**	**100.0%**	**98.2%**	**175,626**	**96.0%**	**100.0%**	**96.0%**
Kent County	130,478	97.7%	100.0%	97.7%	50,306	92.6%	100.0%	92.6%
New Castle County	531,461	98.1%	100.0%	98.1%	27,292	95.0%	100.0%	95.0%
Sussex County	136,192	99.0%	99.7%	98.8%	98,028	98.0%	100.0%	98.0%
District of Columbia	**705,732**	**98.0%**	**100.0%**	**98.0%**				
Florida	**19,308,910**	**98.2%**	**100.0%**	**98.2%**	**2,168,495**	**78.6%**	**99.9%**	**78.6%**
Alachua County	205,431	91.5%	100.0%	91.5%	63,612	69.8%	100.0%	69.8%
Baker County	11,491	96.8%	100.0%	96.8%	17,717	76.5%	99.1%	75.9%
Bay County	148,940	98.6%	100.0%	98.6%	25,765	67.1%	100.0%	67.1%
Bradford County	7,129	88.2%	100.0%	88.2%	21,071	41.4%	100.0%	41.4%
Brevard County	566,055	100.0%	99.9%	99.8%	35,882	92.4%	100.0%	92.4%
Broward County	1,951,848	98.2%	100.0%	98.2%	930	18.9%	99.9%	18.9%
Calhoun County	4,347	100.0%	100.0%	100.0%	9,758	91.4%	100.0%	91.4%
Charlotte County	168,386	99.2%	100.0%	99.2%	20,518	81.4%	99.7%	81.1%
Citrus County	96,678	98.7%	100.0%	98.7%	52,975	85.5%	100.0%	85.4%
Clay County	178,834	97.3%	100.0%	97.3%	40,414	74.3%	100.0%	74.3%
Collier County	336,756	98.2%	99.8%	98.0%	48,142	74.8%	100.0%	74.8%
Columbia County	26,902	83.4%	100.0%	83.4%	44,782	82.0%	100.0%	82.0%
DeSoto County	19,625	100.0%	100.0%	100.0%	18,375	100.0%	100.0%	100.0%
Dixie County	3,751	0.0%	100.0%	0.0%	13,074	1.0%	99.6%	1.0%
Duval County	925,727	100.0%	100.0%	100.0%	32,028	100.0%	100.0%	100.0%
Escambia County	289,443	97.8%	100.0%	97.8%	28,870	71.4%	100.0%	71.4%
Flagler County	97,105	100.0%	100.0%	100.0%	17,974	76.7%	100.0%	76.7%
Franklin County	3,786	99.4%	99.8%	99.2%	8,339	76.1%	99.9%	76.1%

	Urban Areas				Rural Areas			
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Gadsden County	15,227	97.3%	100.0%	97.3%	30,433	87.9%	100.0%	87.9%
Gilchrist County	2,822	0.0%	100.0%	0.0%	15,760	33.3%	100.0%	33.3%
Glades County	3,865	74.9%	100.0%	74.9%	9,945	60.7%	100.0%	60.7%
Gulf County	3,662	100.0%	100.0%	100.0%	9,977	89.0%	99.7%	88.7%
Hamilton County	3,924	61.8%	100.0%	61.8%	10,504	75.8%	100.0%	75.8%
Hardee County	14,219	100.0%	100.0%	100.0%	12,718	100.0%	100.0%	100.0%
Hendry County	25,146	92.9%	100.0%	92.9%	16,876	51.7%	100.0%	51.7%
Hernando County	153,349	100.0%	100.0%	100.0%	40,552	89.5%	100.0%	89.5%
Highlands County	81,426	100.0%	100.0%	100.0%	24,793	100.0%	100.0%	100.0%
Hillsborough County	1,408,262	99.9%	100.0%	99.9%	63,657	95.2%	99.9%	95.1%
Holmes County	4,000	97.6%	100.0%	97.6%	15,617	18.0%	100.0%	18.0%
Indian River County	148,005	100.0%	99.8%	99.8%	11,917	100.0%	100.0%	100.0%
Jackson County	10,501	81.8%	100.0%	81.8%	35,913	53.5%	100.0%	53.5%
Jefferson County					14,246	30.8%	100.0%	30.8%
Lafayette County					8,422	60.7%	100.0%	60.7%
Lake County	288,963	96.1%	100.0%	96.1%	78,139	77.5%	100.0%	77.5%
Lee County	714,737	92.2%	99.9%	92.1%	55,837	80.4%	99.4%	79.9%
Leon County	254,146	97.9%	100.0%	97.9%	39,436	87.4%	100.0%	87.4%
Levy County	3,197	31.4%	100.0%	31.4%	38,305	12.5%	99.9%	12.5%
Liberty County					8,354	67.5%	99.7%	67.4%
Madison County	3,625	99.2%	100.0%	99.2%	14,868	47.1%	100.0%	47.1%
Manatee County	371,729	99.9%	100.0%	99.9%	31,504	93.0%	100.0%	93.0%
Marion County	247,764	96.5%	100.0%	96.5%	117,805	82.7%	100.0%	82.7%
Martin County	144,748	98.5%	99.9%	98.5%	16,252	86.6%	100.0%	86.6%
Miami-Dade County	2,690,557	96.8%	99.9%	96.8%	26,383	61.3%	99.6%	61.3%
Monroe County	66,746	96.6%	99.4%	96.1%	7,482	91.6%	99.5%	91.5%
Nassau County	43,962	96.5%	100.0%	96.5%	44,662	89.0%	100.0%	89.0%
Okaloosa County	179,414	96.1%	100.0%	96.1%	31,306	74.7%	99.6%	74.7%
Okeechobee County	25,823	100.0%	100.0%	100.0%	16,345	100.0%	100.0%	100.0%
Orange County	1,343,277	100.0%	100.0%	100.0%	50,173	100.0%	100.0%	100.0%
Osceola County	321,050	100.0%	100.0%	100.0%	54,693	100.0%	100.0%	100.0%

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Palm Beach County	1,462,172	98.0%	100.0%	97.9%	34,592	53.5%	100.0%	53.5%
Pasco County	493,456	99.5%	100.0%	99.5%	60,458	91.3%	100.0%	91.3%
Pinellas County	972,215	99.9%	99.9%	99.8%	2,781	99.5%	99.9%	99.4%
Polk County	612,261	99.1%	100.0%	99.1%	112,488	75.1%	100.0%	75.1%
Putnam County	32,618	94.4%	100.0%	94.4%	41,900	74.0%	100.0%	74.0%
Santa Rosa County	136,653	97.0%	100.0%	97.0%	47,638	63.1%	99.9%	63.1%
Sarasota County	408,698	99.4%	100.0%	99.4%	25,027	89.9%	100.0%	89.9%
Seminole County	454,684	100.0%	100.0%	100.0%	17,134	100.0%	100.0%	100.0%
St. Johns County	190,020	100.0%	99.9%	99.9%	74,647	100.0%	100.0%	100.0%
St. Lucie County	307,204	96.1%	100.0%	96.1%	21,089	69.4%	100.0%	69.4%
Sumter County	72,085	97.6%	100.0%	97.6%	60,330	87.9%	100.0%	87.9%
Suwannee County	7,215	93.3%	100.0%	93.3%	37,202	87.2%	100.0%	87.2%
Taylor County	6,873	99.7%	100.0%	99.7%	14,696	58.0%	100.0%	58.0%
Union County	4,545	49.8%	100.0%	49.8%	10,692	81.5%	100.0%	81.5%
Volusia County	491,801	100.0%	99.9%	99.9%	61,482	100.0%	100.0%	100.0%
Wakulla County	12,228	98.9%	100.0%	98.9%	21,511	88.6%	99.8%	88.6%
Walton County	23,933	99.2%	99.4%	98.7%	50,129	73.1%	100.0%	73.1%
Washington County	3,869	100.0%	100.0%	100.0%	21,599	18.8%	100.0%	18.8%
Georgia	**7,993,145**	**98.1%**	**100.0%**	**98.1%**	**2,620,738**	**81.0%**	**100.0%**	**81.0%**
Appling County	5,229	100.0%	100.0%	100.0%	13,157	31.6%	100.0%	31.6%
Atkinson County					8,165	64.4%	100.0%	64.4%
Bacon County	3,368	100.0%	100.0%	100.0%	7,796	68.3%	100.0%	68.3%
Baker County					3,038	3.3%	100.0%	3.3%
Baldwin County	28,846	96.7%	100.0%	96.7%	16,044	95.2%	100.0%	95.2%
Banks County	1,174	86.2%	100.0%	86.2%	18,056	83.1%	100.0%	83.1%
Barrow County	57,267	99.1%	100.0%	99.1%	25,973	97.6%	100.0%	97.6%
Bartow County	68,455	99.0%	100.0%	99.0%	39,281	85.9%	100.0%	85.9%
Ben Hill County	11,006	97.8%	100.0%	97.8%	5,694	82.3%	100.0%	82.3%
Berrien County	4,541	99.6%	100.0%	99.6%	14,855	81.7%	100.0%	81.7%
Bibb County	131,638	97.5%	100.0%	97.5%	21,521	96.1%	100.0%	96.1%
Bleckley County	6,180	61.1%	100.0%	61.1%	6,693	47.1%	100.0%	47.1%

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Brantley County	105	100.0%	100.0%	100.0%	19,000	99.4%	100.0%	99.4%
Brooks County	4,406	98.8%	100.0%	98.8%	11,051	77.3%	100.0%	77.3%
Bryan County	16,897	94.1%	100.0%	94.1%	22,729	95.9%	100.0%	95.9%
Bulloch County	37,876	100.0%	100.0%	100.0%	41,732	100.0%	100.0%	100.0%
Burke County	5,333	99.0%	100.0%	99.0%	17,050	63.8%	100.0%	63.8%
Butts County	5,399	99.9%	100.0%	99.9%	19,537	74.0%	100.0%	74.0%
Calhoun County					6,189	24.9%	100.0%	24.9%
Camden County	35,460	97.9%	100.0%	97.9%	19,206	82.4%	100.0%	82.4%
Candler County	3,485	100.0%	100.0%	100.0%	7,318	100.0%	100.0%	100.0%
Carroll County	68,409	99.8%	100.0%	99.8%	51,580	83.3%	100.0%	83.3%
Catoosa County	48,339	99.7%	100.0%	99.7%	19,241	97.3%	100.0%	97.3%
Charlton County	5,660	80.7%	100.0%	80.7%	7,731	66.7%	100.0%	66.7%
Chatham County	274,709	98.7%	100.0%	98.7%	14,721	93.4%	100.0%	93.4%
Chattahoochee County	5,733	99.6%	100.0%	99.6%	5,174	4.7%	100.0%	4.7%
Chattooga County	10,419	100.0%	100.0%	100.0%	14,370	96.2%	100.0%	96.2%
Cherokee County	210,081	98.3%	100.0%	98.3%	48,690	93.3%	100.0%	93.3%
Clarke County	120,082	99.8%	100.0%	99.8%	8,247	93.5%	100.0%	93.5%
Clay County					2,834	65.2%	99.7%	65.2%
Clayton County	286,460	98.2%	100.0%	98.2%	3,138	98.5%	100.0%	98.5%
Clinch County	2,572	87.6%	100.0%	87.6%	4,046	59.9%	100.0%	59.9%
Cobb County	758,129	98.0%	100.0%	98.0%	2,010	95.7%	100.0%	95.7%
Coffee County	14,287	96.2%	100.0%	96.2%	28,984	89.7%	100.0%	89.7%
Colquitt County	18,402	98.9%	100.0%	98.9%	27,198	83.3%	100.0%	83.3%
Columbia County	127,220	99.2%	100.0%	99.2%	29,489	94.4%	100.0%	94.4%
Cook County	6,821	97.8%	100.0%	97.8%	10,449	76.1%	100.0%	76.1%
Coweta County	96,525	97.3%	100.0%	97.3%	51,984	93.3%	100.0%	93.3%
Crawford County					12,404	93.5%	100.0%	93.5%
Crisp County	11,758	99.4%	100.0%	99.4%	10,614	59.3%	100.0%	59.3%
Dade County	4,484	99.8%	100.0%	99.8%	11,632	90.2%	100.0%	90.2%
Dawson County	4,790	99.1%	100.0%	99.1%	21,318	89.3%	100.0%	89.3%
DeKalb County	757,023	98.7%	100.0%	98.7%	2,256	97.8%	100.0%	97.8%

	Urban Areas				Rural Areas			
County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both
Decatur County	11,447	99.6%	100.0%	99.6%	14,957	40.9%	100.0%	40.9%
Dodge County	5,634	98.6%	100.0%	98.6%	14,971	55.8%	100.0%	55.8%
Dooly County	5,763	78.3%	100.0%	78.3%	7,627	37.7%	100.0%	37.7%
Dougherty County	75,163	97.8%	100.0%	97.8%	12,793	94.7%	100.0%	94.7%
Douglas County	122,431	97.8%	100.0%	97.8%	23,907	96.6%	100.0%	96.6%
Early County	3,413	83.6%	100.0%	83.6%	6,777	38.8%	100.0%	38.8%
Echols County					4,006	0.0%	100.0%	0.0%
Effingham County	19,971	98.5%	100.0%	98.5%	44,325	96.0%	100.0%	96.0%
Elbert County	5,670	100.0%	100.0%	100.0%	13,524	78.7%	99.9%	78.7%
Emanuel County	7,375	100.0%	100.0%	100.0%	15,271	92.1%	100.0%	92.1%
Evans County	3,974	95.1%	100.0%	95.1%	6,680	74.7%	100.0%	74.7%
Fannin County					26,188	92.0%	99.5%	91.7%
Fayette County	93,336	98.4%	100.0%	98.4%	21,084	96.5%	100.0%	96.5%
Floyd County	61,960	96.8%	100.0%	96.8%	36,538	90.0%	100.0%	90.0%
Forsyth County	217,855	99.1%	100.0%	99.1%	26,360	98.5%	100.0%	98.5%
Franklin County	2,545	100.0%	100.0%	100.0%	20,802	83.0%	100.0%	83.0%
Fulton County	1,049,202	98.7%	100.0%	98.7%	14,685	75.7%	100.0%	75.7%
Gilmer County	3,720	83.4%	100.0%	83.4%	27,647	81.8%	100.0%	81.8%
Glascock County					2,971	1.0%	100.0%	1.0%
Glynn County	66,831	97.6%	100.0%	97.6%	18,461	93.6%	99.5%	93.1%
Gordon County	27,862	97.7%	100.0%	97.7%	30,100	87.2%	100.0%	87.2%
Grady County	9,138	98.4%	100.0%	98.4%	15,495	75.4%	100.0%	75.4%
Greene County	2,894	99.7%	100.0%	99.7%	14,804	65.4%	100.0%	65.4%
Gwinnett County	930,724	99.0%	100.0%	99.0%	5,522	96.9%	100.0%	96.9%
Habersham County	18,341	97.1%	100.0%	97.1%	26,987	95.2%	100.0%	95.2%
Hall County	160,164	99.5%	100.0%	99.5%	44,271	91.8%	100.0%	91.8%
Hancock County	2,726	6.2%	100.0%	6.2%	5,731	15.9%	100.0%	15.9%
Haralson County	6,549	100.0%	100.0%	100.0%	23,243	100.0%	100.0%	100.0%
Harris County	1,127	99.9%	100.0%	99.9%	34,106	86.3%	100.0%	86.3%
Hart County	6,495	99.2%	100.0%	99.2%	19,710	96.3%	100.0%	96.3%
Heard County					11,923	59.8%	100.0%	59.8%

	Urban Areas				Rural Areas			
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Henry County	200,452	99.8%	100.0%	99.8%	34,099	98.0%	100.0%	98.0%
Houston County	137,663	96.6%	100.0%	96.6%	20,190	75.8%	100.0%	75.8%
Irwin County	3,015	90.2%	100.0%	90.2%	6,400	47.6%	100.0%	47.6%
Jackson County	28,106	98.4%	100.0%	98.4%	44,860	91.2%	100.0%	91.2%
Jasper County	2,544	84.6%	100.0%	84.6%	11,675	55.8%	100.0%	55.8%
Jeff Davis County	4,585	91.5%	100.0%	91.5%	10,530	49.8%	100.0%	49.8%
Jefferson County	2,833	0.1%	100.0%	0.1%	12,529	10.8%	100.0%	10.8%
Jenkins County	2,678	99.1%	100.0%	99.1%	5,998	74.8%	100.0%	74.8%
Johnson County	3,263	0.0%	100.0%	0.0%	6,380	45.9%	100.0%	45.9%
Jones County	9,091	97.2%	100.0%	97.2%	19,643	82.0%	100.0%	82.0%
Lamar County	7,273	97.3%	100.0%	97.3%	11,804	57.4%	100.0%	57.4%
Lanier County	2,986	96.9%	100.0%	96.9%	7,436	80.8%	100.0%	80.8%
Laurens County	20,391	98.7%	100.0%	98.7%	27,155	50.5%	100.0%	50.5%
Lee County	18,636	98.3%	100.0%	98.3%	11,355	74.2%	100.0%	74.2%
Liberty County	44,504	97.4%	100.0%	97.4%	16,931	84.8%	100.0%	84.8%
Lincoln County					7,921	100.0%	99.1%	99.1%
Long County	3,063	93.5%	100.0%	93.5%	16,485	82.7%	100.0%	82.7%
Lowndes County	84,023	91.5%	100.0%	91.5%	33,382	56.9%	100.0%	56.9%
Lumpkin County	5,105	69.8%	100.0%	69.8%	28,503	92.5%	100.0%	92.5%
Macon County	5,544	81.9%	100.0%	81.9%	7,403	70.0%	100.0%	70.0%
Madison County	2,376	99.5%	100.0%	99.5%	27,503	91.0%	100.0%	91.0%
Marion County					8,359	71.5%	100.0%	71.5%
McDuffie County	8,331	99.3%	100.0%	99.3%	12,981	70.9%	100.0%	70.9%
McIntosh County	3,705	99.7%	100.0%	99.7%	10,673	96.1%	100.0%	96.1%
Meriwether County	3,594	100.0%	100.0%	100.0%	17,571	43.8%	100.0%	43.8%
Miller County					5,716	10.7%	100.0%	10.7%
Mitchell County	9,444	87.3%	100.0%	87.3%	12,419	37.5%	100.0%	37.5%
Monroe County	5,369	68.8%	100.0%	68.8%	22,209	48.7%	100.0%	48.7%
Montgomery County	118	100.0%	100.0%	100.0%	9,054	49.4%	100.0%	49.4%
Morgan County	4,192	99.8%	100.0%	99.8%	15,083	31.9%	100.0%	31.9%
Murray County	11,985	99.9%	100.0%	99.9%	28,110	98.0%	99.9%	97.9%

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Muscogee County	189,019	99.3%	100.0%	99.3%	6,750	90.2%	100.0%	90.2%
Newton County	75,975	99.9%	100.0%	99.9%	35,766	90.9%	100.0%	90.9%
Oconee County	19,475	99.8%	100.0%	99.8%	20,803	83.6%	100.0%	83.6%
Oglethorpe County	115	100.0%	100.0%	100.0%	15,144	80.1%	100.0%	80.1%
Paulding County	132,884	99.0%	100.0%	99.0%	35,771	97.4%	100.0%	97.4%
Peach County	16,537	69.5%	100.0%	69.5%	11,003	65.3%	100.0%	65.3%
Pickens County	8,709	96.8%	100.0%	96.8%	23,882	92.2%	100.0%	92.2%
Pierce County	3,986	100.0%	100.0%	100.0%	15,479	76.2%	100.0%	76.2%
Pike County	196	100.0%	100.0%	100.0%	18,766	43.8%	100.0%	43.8%
Polk County	20,443	99.8%	100.0%	99.8%	22,170	94.1%	100.0%	94.1%
Pulaski County	3,971	81.0%	100.0%	81.0%	7,165	65.6%	100.0%	65.6%
Putnam County	4,184	99.8%	100.0%	99.8%	17,934	86.1%	100.0%	86.1%
Quitman County	623	100.0%	100.0%	100.0%	1,675	49.6%	100.0%	49.6%
Rabun County	3,252	95.9%	100.0%	95.9%	13,885	89.6%	100.0%	89.6%
Randolph County	3,033	99.0%	100.0%	99.0%	3,745	62.9%	100.0%	62.9%
Richmond County	183,357	95.9%	100.0%	95.9%	19,160	96.4%	100.0%	96.4%
Rockdale County	77,041	98.3%	100.0%	98.3%	13,849	99.4%	100.0%	99.4%
Schley County					5,257	76.8%	100.0%	76.8%
Screven County	2,899	98.0%	100.0%	98.0%	11,067	100.0%	100.0%	100.0%
Seminole County	2,515	93.0%	100.0%	93.0%	5,575	71.5%	100.0%	71.5%
Spalding County	38,609	97.8%	100.0%	97.8%	28,088	92.1%	100.0%	92.1%
Stephens County	10,572	95.6%	100.0%	95.6%	15,353	94.0%	100.0%	94.0%
Stewart County					6,620	0.8%	100.0%	0.8%
Sumter County	16,574	96.5%	100.0%	96.5%	12,950	42.5%	100.0%	42.5%
Talbot County	374	97.3%	100.0%	97.3%	5,821	78.6%	100.0%	78.6%
Taliaferro County					1,537	91.0%	100.0%	91.0%
Tattnall County	7,882	79.3%	100.0%	79.3%	17,404	77.2%	100.0%	77.2%
Taylor County					8,020	83.0%	100.0%	83.0%
Telfair County	7,995	96.2%	100.0%	96.2%	7,865	64.5%	100.0%	64.5%
Terrell County	4,147	98.3%	100.0%	98.3%	4,384	58.9%	100.0%	58.9%
Thomas County	23,670	98.0%	100.0%	98.0%	20,781	77.2%	100.0%	77.2%

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Tift County	23,529	95.7%	100.0%	95.7%	17,115	74.9%	100.0%	74.9%
Toombs County	13,101	96.9%	100.0%	96.9%	13,729	58.9%	100.0%	58.9%
Towns County					12,037	97.8%	99.5%	97.3%
Treutlen County	2,650	20.1%	100.0%	20.1%	4,251	8.3%	100.0%	8.3%
Troup County	38,670	99.9%	100.0%	99.9%	31,252	87.8%	100.0%	87.8%
Turner County	3,705	98.6%	100.0%	98.6%	4,280	50.5%	100.0%	50.5%
Twiggs County					8,120	45.0%	100.0%	45.0%
Union County					24,511	96.1%	100.0%	96.0%
Upson County	13,516	100.0%	100.0%	100.0%	12,804	87.7%	100.0%	87.7%
Walker County	38,710	99.0%	100.0%	99.0%	31,051	93.8%	99.8%	93.6%
Walton County	53,096	93.6%	100.0%	93.6%	41,497	91.0%	100.0%	91.0%
Ware County	25,211	98.7%	100.0%	98.7%	10,523	57.3%	100.0%	57.3%
Warren County					5,254	0.2%	100.0%	0.2%
Washington County	6,919	100.0%	100.0%	100.0%	13,455	50.4%	100.0%	50.4%
Wayne County	12,308	84.6%	100.0%	84.6%	17,619	79.8%	100.0%	79.8%
Webster County					2,607	46.1%	100.0%	46.1%
Wheeler County					7,855	55.8%	100.0%	55.8%
White County	4,692	97.9%	100.0%	97.9%	26,105	93.3%	100.0%	93.3%
Whitfield County	73,904	100.0%	100.0%	100.0%	30,723	100.0%	100.0%	100.0%
Wilcox County					8,635	67.0%	100.0%	67.0%
Wilkes County	3,081	100.0%	100.0%	100.0%	6,696	100.0%	100.0%	100.0%
Wilkinson County					8,954	70.2%	100.0%	70.2%
Worth County	6,269	99.8%	100.0%	99.8%	13,978	50.3%	100.0%	50.3%
Hawaii	**1,282,369**	**99.3%**	**99.9%**	**99.2%**	**133,503**	**84.7%**	**99.4%**	**84.5%**
Hawaii County	119,477	96.9%	100.0%	96.9%	82,036	88.3%	99.7%	88.1%
Honolulu County	963,306	99.5%	99.9%	99.4%	11,257	85.3%	100.0%	85.3%
Kalawao County					86	19.8%	100.0%	19.8%
Kauai County	61,372	99.0%	100.0%	99.0%	10,921	72.6%	96.9%	72.5%
Maui County	138,214	99.8%	99.9%	99.7%	29,203	79.1%	99.3%	78.5%
Idaho	**1,219,027**	**99.4%**	**100.0%**	**99.4%**	**567,860**	**86.5%**	**98.1%**	**85.9%**
Ada County	440,358	99.7%	100.0%	99.7%	41,182	93.4%	100.0%	93.4%

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Adams County					4,294	55.7%	96.9%	54.4%
Bannock County	71,508	98.9%	100.0%	98.9%	16,296	77.5%	99.6%	77.3%
Bear Lake County					6,122	73.9%	97.4%	73.6%
Benewah County	2,550	100.0%	100.0%	100.0%	6,748	67.1%	78.1%	66.1%
Bingham County	19,691	100.0%	100.0%	100.0%	27,113	97.3%	99.9%	97.3%
Blaine County	14,786	94.4%	100.0%	94.4%	8,235	87.9%	94.5%	83.2%
Boise County					7,831	66.1%	85.4%	59.9%
Bonner County	11,649	100.0%	100.0%	100.0%	34,087	99.7%	99.1%	98.8%
Bonneville County	96,710	100.0%	100.0%	100.0%	22,334	89.3%	98.1%	87.9%
Boundary County	2,771	100.0%	100.0%	100.0%	9,474	97.7%	92.0%	90.6%
Butte County					2,597	64.5%	98.4%	64.2%
Camas County					1,106	97.5%	100.0%	97.5%
Canyon County	171,098	100.0%	100.0%	100.0%	58,691	99.6%	100.0%	99.6%
Caribou County	2,612	99.9%	100.0%	99.9%	4,542	69.6%	98.5%	69.4%
Cassia County	11,237	100.0%	100.0%	100.0%	12,793	95.4%	99.8%	95.4%
Clark County					845	92.8%	99.2%	92.8%
Clearwater County	3,545	75.8%	100.0%	75.8%	5,211	33.7%	77.9%	31.6%
Custer County					4,314	81.1%	86.2%	71.2%
Elmore County	18,703	91.8%	100.0%	91.8%	8,807	45.6%	99.0%	45.6%
Franklin County	4,394	99.9%	100.0%	99.9%	9,481	92.0%	98.5%	91.1%
Fremont County	3,585	100.0%	100.0%	100.0%	9,514	93.6%	100.0%	93.6%
Gem County	9,396	100.0%	100.0%	100.0%	8,715	94.6%	100.0%	94.6%
Gooding County	6,303	100.0%	100.0%	100.0%	8,876	97.1%	100.0%	97.1%
Idaho County	3,182	100.0%	100.0%	100.0%	13,485	66.1%	90.2%	65.4%
Jefferson County	9,137	100.0%	100.0%	100.0%	20,724	90.0%	100.0%	90.0%
Jerome County	11,088	100.0%	100.0%	100.0%	13,323	99.3%	100.0%	99.3%
Kootenai County	117,699	100.0%	100.0%	100.0%	47,990	95.8%	99.0%	95.6%
Latah County	24,395	100.0%	100.0%	100.0%	15,713	50.5%	97.3%	48.8%
Lemhi County	2,560	100.0%	100.0%	100.0%	5,467	35.9%	92.2%	35.7%
Lewis County					3,838	29.5%	99.7%	29.5%
Lincoln County					5,366	90.8%	100.0%	90.8%

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Madison County	27,084	100.0%	100.0%	100.0%	12,821	97.0%	100.0%	97.0%
Minidoka County	11,297	100.0%	100.0%	100.0%	9,741	99.6%	100.0%	99.6%
Nez Perce County	32,205	99.4%	100.0%	99.4%	8,203	36.8%	95.4%	35.7%
Oneida County					4,531	84.1%	99.6%	83.8%
Owyhee County	2,580	100.0%	100.0%	100.0%	9,243	74.6%	99.2%	74.6%
Payette County	13,105	100.0%	100.0%	100.0%	10,842	89.3%	100.0%	89.3%
Power County	4,272	100.0%	100.0%	100.0%	3,409	84.0%	99.9%	84.0%
Shoshone County	5,549	78.1%	100.0%	78.1%	7,333	66.3%	91.0%	66.0%
Teton County					12,141	91.4%	100.0%	91.4%
Twin Falls County	58,627	100.0%	100.0%	100.0%	28,250	94.9%	100.0%	94.9%
Valley County					11,389	72.1%	99.3%	72.1%
Washington County	5,351	100.0%	100.0%	100.0%	4,843	77.0%	99.9%	76.9%
Illinois	**11,206,034**	**99.3%**	**100.0%**	**99.3%**	**1,465,763**	**88.0%**	**100.0%**	**88.0%**
Adams County	43,827	99.9%	100.0%	99.9%	21,608	70.1%	100.0%	70.1%
Alexander County	2,334	0.0%	100.0%	0.0%	3,427	0.1%	99.6%	0.1%
Bond County	5,735	100.0%	100.0%	100.0%	10,691	100.0%	100.0%	100.0%
Boone County	43,033	99.7%	100.0%	99.7%	10,511	86.6%	100.0%	86.6%
Brown County	3,792	100.0%	100.0%	100.0%	2,786	52.5%	100.0%	52.5%
Bureau County	13,269	100.0%	100.0%	100.0%	19,359	100.0%	100.0%	100.0%
Calhoun County					4,739	73.4%	100.0%	73.4%
Carroll County	2,446	97.5%	100.0%	97.5%	11,859	90.5%	100.0%	90.5%
Cass County	6,040	100.0%	100.0%	100.0%	6,107	86.7%	100.0%	86.7%
Champaign County	180,510	98.8%	100.0%	98.8%	29,179	84.8%	100.0%	84.8%
Christian County	17,429	100.0%	100.0%	100.0%	14,875	100.0%	100.0%	100.0%
Clark County	6,150	99.6%	100.0%	99.6%	9,291	68.3%	100.0%	68.3%
Clay County	4,487	100.0%	100.0%	100.0%	8,697	78.9%	100.0%	78.9%
Clinton County	19,099	100.0%	100.0%	100.0%	18,463	99.9%	100.0%	99.9%
Coles County	37,611	98.5%	100.0%	98.5%	13,010	65.1%	100.0%	65.1%
Cook County	5,147,731	99.2%	100.0%	99.2%	2,502	94.6%	100.0%	94.6%
Crawford County	7,003	99.4%	100.0%	99.4%	11,664	67.0%	100.0%	67.0%
Cumberland County					10,766	56.1%	100.0%	56.1%

	Urban Areas				Rural Areas			
County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both
De Witt County	7,809	96.2%	100.0%	96.2%	7,829	79.5%	100.0%	79.5%
DeKalb County	82,809	96.7%	100.0%	96.7%	22,078	95.6%	100.0%	95.6%
Douglas County	7,331	98.0%	100.0%	98.0%	12,134	73.4%	100.0%	73.4%
DuPage County	922,387	99.3%	100.0%	99.3%	534	66.3%	100.0%	66.3%
Edgar County	8,204	99.5%	100.0%	99.5%	8,957	85.6%	100.0%	85.6%
Edwards County					6,395	78.0%	100.0%	78.0%
Effingham County	13,442	100.0%	100.0%	100.0%	20,566	92.2%	100.0%	92.2%
Fayette County	6,537	41.5%	100.0%	41.5%	14,799	62.0%	100.0%	62.0%
Ford County	7,195	99.8%	100.0%	99.8%	5,766	77.4%	100.0%	77.4%
Franklin County	19,480	100.0%	100.0%	100.0%	18,989	96.3%	100.0%	96.3%
Fulton County	12,435	93.9%	100.0%	93.9%	21,905	73.2%	100.0%	73.2%
Gallatin County					4,828	91.9%	100.0%	91.9%
Greene County	3,698	98.9%	100.0%	98.9%	9,271	87.7%	100.0%	87.7%
Grundy County	38,297	100.0%	100.0%	100.0%	12,755	99.9%	100.0%	99.9%
Hamilton County	2,416	99.9%	100.0%	99.9%	5,700	65.2%	100.0%	65.2%
Hancock County	4,765	96.4%	100.0%	96.4%	12,943	75.1%	100.0%	75.1%
Hardin County					3,821	100.0%	100.0%	100.0%
Henderson County	26	100.0%	100.0%	100.0%	6,620	100.0%	99.7%	99.7%
Henry County	24,292	100.0%	100.0%	100.0%	24,621	100.0%	100.0%	100.0%
Iroquois County	7,431	97.8%	100.0%	97.8%	19,683	71.5%	100.0%	71.5%
Jackson County	33,947	100.0%	100.0%	100.0%	22,803	99.9%	100.0%	99.9%
Jasper County	2,472	98.9%	100.0%	98.9%	7,138	33.2%	100.0%	33.2%
Jefferson County	15,036	100.0%	100.0%	100.0%	22,648	98.9%	100.0%	98.9%
Jersey County	8,852	100.0%	100.0%	100.0%	12,921	97.5%	99.8%	97.2%
Jo Daviess County	5,569	99.8%	100.0%	99.8%	15,666	84.4%	100.0%	84.4%
Johnson County					12,417	55.1%	100.0%	55.1%
Kane County	511,140	99.5%	100.0%	99.5%	21,263	89.6%	100.0%	89.6%
Kankakee County	81,885	99.3%	100.0%	99.3%	27,977	93.1%	100.0%	93.1%
Kendall County	111,212	99.5%	100.0%	99.5%	17,769	94.2%	100.0%	94.2%
Knox County	36,654	100.0%	100.0%	100.0%	13,045	100.0%	100.0%	100.0%
LaSalle County	76,021	100.0%	100.0%	100.0%	32,648	100.0%	100.0%	100.0%

	Urban Areas				Rural Areas			
County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both
Lake County	687,458	99.1%	100.0%	99.1%	9,077	97.8%	100.0%	97.8%
Lawrence County	6,621	98.1%	100.0%	98.1%	9,057	62.9%	100.0%	62.9%
Lee County	15,329	100.0%	100.0%	100.0%	18,767	100.0%	100.0%	100.0%
Livingston County	19,732	100.0%	100.0%	100.0%	15,916	100.0%	100.0%	100.0%
Logan County	16,531	97.8%	100.0%	97.8%	12,087	87.6%	100.0%	87.6%
Macon County	87,110	100.0%	100.0%	100.0%	16,899	96.1%	100.0%	96.1%
Macoupin County	18,551	99.2%	100.0%	99.2%	26,375	73.2%	100.0%	73.2%
Madison County	226,959	100.0%	100.0%	100.0%	36,007	99.3%	100.0%	99.3%
Marion County	19,758	100.0%	100.0%	100.0%	17,447	83.6%	100.0%	83.6%
Marshall County					11,438	100.0%	100.0%	100.0%
Mason County	2,906	100.0%	100.0%	100.0%	10,453	73.8%	100.0%	73.8%
Massac County	6,944	96.7%	100.0%	96.7%	6,828	49.8%	100.0%	49.8%
McDonough County	20,039	99.4%	100.0%	99.4%	9,643	97.5%	100.0%	97.5%
McHenry County	276,623	99.8%	100.0%	99.8%	31,151	98.6%	100.0%	98.6%
McLean County	140,598	99.6%	100.0%	99.6%	30,919	88.6%	100.0%	88.6%
Menard County	2,906	100.0%	100.0%	100.0%	9,290	95.0%	100.0%	95.0%
Mercer County	3,514	100.0%	100.0%	100.0%	11,923	100.0%	100.0%	100.0%
Monroe County	19,963	100.0%	100.0%	100.0%	14,672	96.3%	99.6%	95.9%
Montgomery County	16,248	93.8%	100.0%	93.8%	12,166	77.1%	100.0%	77.1%
Morgan County	20,590	98.1%	100.0%	98.1%	13,068	76.5%	100.0%	76.5%
Moultrie County	4,321	100.0%	100.0%	100.0%	10,180	93.5%	100.0%	93.5%
Ogle County	26,135	99.9%	100.0%	99.9%	24,508	91.7%	100.0%	91.7%
Peoria County	151,229	100.0%	100.0%	100.0%	27,950	100.0%	100.0%	100.0%
Perry County	11,705	100.0%	100.0%	100.0%	9,211	90.7%	100.0%	90.7%
Piatt County	5,140	99.6%	100.0%	99.6%	11,204	94.5%	100.0%	94.5%
Pike County	3,935	99.7%	100.0%	99.7%	11,626	83.4%	100.0%	83.4%
Pope County					4,177	83.9%	99.8%	83.7%
Pulaski County					5,335	44.9%	100.0%	44.9%
Putnam County					5,739	100.0%	100.0%	100.0%
Randolph County	17,460	99.0%	100.0%	99.0%	14,322	92.6%	100.0%	92.6%
Richland County	8,485	100.0%	100.0%	100.0%	7,028	45.4%	100.0%	45.4%

	Urban Areas				Rural Areas			
County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both
Rock Island County	125,693	100.0%	100.0%	100.0%	16,186	100.0%	100.0%	100.0%
Saline County	13,155	98.9%	100.0%	98.9%	10,336	63.6%	100.0%	63.6%
Sangamon County	166,111	98.7%	100.0%	98.7%	28,561	97.0%	100.0%	97.0%
Schuyler County	2,888	100.0%	100.0%	100.0%	3,880	33.1%	100.0%	33.1%
Scott County					4,950	93.1%	100.0%	93.1%
Shelby County	4,592	100.0%	100.0%	100.0%	17,042	86.9%	100.0%	86.9%
St. Clair County	233,403	100.0%	100.0%	100.0%	26,283	100.0%	100.0%	100.0%
Stark County					5,342	100.0%	100.0%	100.0%
Stephenson County	25,746	99.5%	100.0%	99.5%	18,752	94.7%	100.0%	94.7%
Tazewell County	103,888	99.3%	100.0%	99.3%	27,915	91.0%	100.0%	91.0%
Union County	5,468	97.8%	100.0%	97.8%	11,185	71.8%	100.0%	71.8%
Vermilion County	51,053	99.0%	100.0%	99.0%	24,705	85.4%	100.0%	85.4%
Wabash County	6,858	100.0%	100.0%	100.0%	4,662	69.1%	100.0%	69.1%
Warren County	8,681	100.0%	100.0%	100.0%	8,163	100.0%	100.0%	100.0%
Washington County	3,449	99.0%	100.0%	99.0%	10,438	84.7%	100.0%	84.7%
Wayne County	4,732	99.0%	100.0%	99.0%	11,483	90.7%	100.0%	90.7%
White County	4,838	98.5%	100.0%	98.5%	8,699	71.9%	100.0%	71.9%
Whiteside County	34,490	100.0%	100.0%	100.0%	20,685	100.0%	100.0%	100.0%
Will County	662,230	99.4%	100.0%	99.4%	28,513	99.6%	100.0%	99.6%
Williamson County	43,206	99.9%	100.0%	99.9%	23,391	78.4%	100.0%	78.4%
Winnebago County	259,939	99.2%	100.0%	99.2%	22,633	87.7%	100.0%	87.7%
Woodford County	16,986	100.0%	100.0%	100.0%	21,473	100.0%	100.0%	100.0%
Indiana	**4,871,645**	**99.4%**	**100.0%**	**99.4%**	**1,860,242**	**87.4%**	**100.0%**	**87.4%**
Adams County	16,442	100.0%	100.0%	100.0%	19,333	100.0%	100.0%	100.0%
Allen County	332,571	99.1%	100.0%	99.1%	46,671	99.5%	100.0%	99.5%
Bartholomew County	53,986	98.6%	100.0%	98.6%	29,786	84.8%	100.0%	84.8%
Benton County					8,745	92.4%	100.0%	92.4%
Blackford County	5,446	100.0%	100.0%	100.0%	6,312	100.0%	100.0%	100.0%
Boone County	40,893	99.8%	100.0%	99.8%	26,950	85.1%	100.0%	85.1%
Brown County					15,092	91.0%	100.0%	91.0%
Carroll County	3,753	99.8%	100.0%	99.8%	16,503	54.8%	100.0%	54.8%

	Urban Areas				Rural Areas			
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Cass County	20,500	98.9%	100.0%	98.9%	17,189	87.7%	100.0%	87.7%
Clark County	91,832	100.0%	100.0%	100.0%	26,462	84.2%	100.0%	84.2%
Clay County	10,091	99.3%	100.0%	99.3%	16,132	91.7%	100.0%	91.7%
Clinton County	16,007	100.0%	100.0%	100.0%	16,387	83.9%	100.0%	83.9%
Crawford County					10,577	34.5%	99.5%	34.5%
Daviess County	12,951	100.0%	100.0%	100.0%	20,399	99.4%	100.0%	99.4%
DeKalb County	24,924	99.6%	100.0%	99.6%	18,546	96.4%	100.0%	96.4%
Dearborn County	23,007	99.3%	100.0%	99.3%	26,451	93.1%	100.0%	93.1%
Decatur County	11,902	99.1%	100.0%	99.1%	14,657	56.5%	100.0%	56.5%
Delaware County	87,242	100.0%	100.0%	100.0%	26,893	100.0%	100.0%	100.0%
Dubois County	21,409	100.0%	100.0%	100.0%	21,324	58.6%	100.0%	58.6%
Elkhart County	163,375	97.2%	100.0%	97.2%	42,961	99.4%	100.0%	99.4%
Fayette County	14,390	100.0%	100.0%	100.0%	8,712	100.0%	100.0%	100.0%
Floyd County	62,320	100.0%	100.0%	100.0%	16,197	95.9%	100.0%	95.9%
Fountain County	5,313	99.8%	100.0%	99.8%	11,033	84.3%	100.0%	84.3%
Franklin County	2,484	100.0%	100.0%	100.0%	20,274	66.7%	100.0%	66.7%
Fulton County	6,525	100.0%	100.0%	100.0%	13,449	100.0%	100.0%	100.0%
Gibson County	15,480	100.0%	100.0%	100.0%	18,179	76.5%	100.0%	76.5%
Grant County	45,724	96.6%	100.0%	96.6%	20,045	88.6%	100.0%	88.6%
Greene County	8,143	99.7%	100.0%	99.7%	23,779	81.9%	100.0%	81.9%
Hamilton County	311,427	99.9%	100.0%	99.9%	26,523	99.1%	100.0%	99.1%
Hancock County	53,546	99.3%	100.0%	99.3%	24,605	98.5%	100.0%	98.5%
Harrison County	5,679	100.0%	100.0%	100.0%	34,836	96.3%	100.0%	96.3%
Hendricks County	136,928	99.8%	100.0%	99.8%	33,343	86.4%	100.0%	86.4%
Henry County	26,823	99.8%	100.0%	99.8%	21,149	96.5%	100.0%	96.5%
Howard County	64,666	98.8%	100.0%	98.8%	17,876	87.2%	100.0%	87.2%
Huntington County	17,685	100.0%	100.0%	100.0%	18,834	99.9%	100.0%	99.9%
Jackson County	24,474	100.0%	100.0%	100.0%	19,757	97.2%	100.0%	97.2%
Jasper County	10,682	100.0%	100.0%	100.0%	22,878	78.8%	100.0%	78.8%
Jay County	8,721	100.0%	100.0%	100.0%	11,715	91.2%	100.0%	91.2%
Jefferson County	17,396	99.9%	100.0%	99.9%	14,911	70.7%	100.0%	70.7%

	Urban Areas				Rural Areas			
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Jennings County	10,608	99.5%	100.0%	99.5%	17,125	71.2%	100.0%	71.2%
Johnson County	131,303	99.2%	100.0%	99.2%	26,853	83.1%	100.0%	83.1%
Knox County	22,697	100.0%	100.0%	100.0%	13,897	100.0%	100.0%	100.0%
Kosciusko County	42,156	99.6%	100.0%	99.6%	37,298	99.3%	100.0%	99.3%
LaGrange County	3,295	96.1%	100.0%	96.1%	36,309	66.0%	100.0%	66.0%
LaPorte County	69,985	99.5%	100.0%	99.5%	39,903	99.6%	100.0%	99.6%
Lake County	465,259	99.8%	100.0%	99.8%	20,230	98.2%	100.0%	98.2%
Lawrence County	19,019	99.7%	100.0%	99.7%	26,351	75.5%	100.0%	75.5%
Madison County	98,968	100.0%	100.0%	100.0%	30,601	100.0%	100.0%	100.0%
Marion County	958,415	99.9%	100.0%	99.9%	6,127	99.7%	100.0%	99.7%
Marshall County	16,669	100.0%	100.0%	100.0%	29,589	100.0%	100.0%	100.0%
Martin County	2,672	100.0%	100.0%	100.0%	7,583	81.4%	100.0%	81.4%
Miami County	18,727	100.0%	100.0%	100.0%	16,789	89.9%	100.0%	89.9%
Monroe County	115,440	93.4%	100.0%	93.4%	32,986	97.5%	100.0%	97.5%
Montgomery County	17,767	98.8%	100.0%	98.8%	20,571	62.7%	100.0%	62.7%
Morgan County	35,680	99.0%	100.0%	99.0%	34,807	90.5%	100.0%	90.5%
Newton County					13,984	97.2%	100.0%	97.2%
Noble County	15,060	100.0%	100.0%	100.0%	32,682	84.6%	100.0%	84.6%
Ohio County					5,875	79.7%	99.8%	79.6%
Orange County	3,029	99.9%	100.0%	99.9%	16,617	89.5%	100.0%	89.5%
Owen County					20,799	81.8%	100.0%	81.8%
Parke County	4,089	99.3%	100.0%	99.3%	12,847	66.2%	100.0%	66.2%
Perry County	8,671	99.1%	100.0%	99.1%	10,498	70.9%	99.9%	70.8%
Pike County					12,389	94.7%	100.0%	94.7%
Porter County	134,729	100.0%	100.0%	100.0%	35,658	100.0%	100.0%	100.0%
Posey County	8,364	99.6%	100.0%	99.6%	17,063	60.5%	100.0%	60.5%
Pulaski County	2,163	94.8%	100.0%	94.8%	10,190	64.9%	100.0%	64.9%
Putnam County	12,937	99.8%	100.0%	99.8%	24,639	64.2%	100.0%	64.2%
Randolph County	8,899	100.0%	100.0%	100.0%	15,766	99.8%	100.0%	99.8%
Ripley County	4,488	99.1%	100.0%	99.1%	23,836	60.1%	100.0%	60.1%
Rush County	6,191	100.0%	100.0%	100.0%	10,390	99.1%	100.0%	99.1%

	Urban Areas				Rural Areas			
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Scott County	11,078	100.0%	100.0%	100.0%	12,795	100.0%	100.0%	100.0%
Shelby County	21,176	97.6%	100.0%	97.6%	23,552	67.2%	100.0%	67.2%
Spencer County					20,277	74.8%	100.0%	74.8%
St. Joseph County	247,145	99.4%	100.0%	99.4%	24,679	99.8%	100.0%	99.8%
Starke County	3,952	99.9%	100.0%	99.9%	19,042	92.2%	100.0%	92.2%
Steuben County	11,284	99.3%	100.0%	99.3%	23,310	93.1%	100.0%	93.1%
Sullivan County	4,259	100.0%	100.0%	100.0%	16,410	92.8%	100.0%	92.8%
Switzerland County					10,751	26.6%	100.0%	26.6%
Tippecanoe County	163,097	99.8%	100.0%	99.8%	32,622	82.3%	100.0%	82.3%
Tipton County	5,453	100.0%	100.0%	100.0%	9,695	100.0%	100.0%	100.0%
Union County					7,054	99.9%	100.0%	99.9%
Vanderburgh County	164,545	100.0%	100.0%	100.0%	16,904	88.1%	100.0%	88.1%
Vermillion County	6,052	98.9%	100.0%	98.9%	9,446	95.0%	100.0%	95.0%
Vigo County	80,887	100.0%	100.0%	100.0%	26,151	88.1%	100.0%	88.1%
Wabash County	14,642	100.0%	100.0%	100.0%	16,354	99.7%	100.0%	99.7%
Warren County	1,729	95.4%	100.0%	95.4%	6,536	86.8%	100.0%	86.8%
Warrick County	43,758	100.0%	100.0%	100.0%	19,240	66.6%	100.0%	66.6%
Washington County	6,337	100.0%	100.0%	100.0%	21,698	99.8%	100.0%	99.8%
Wayne County	43,118	100.0%	100.0%	100.0%	22,766	100.0%	100.0%	100.0%
Wells County	13,917	100.0%	100.0%	100.0%	14,376	88.3%	100.0%	88.3%
White County	7,523	97.5%	100.0%	97.5%	16,579	88.8%	100.0%	88.8%
Whitley County	9,676	100.0%	100.0%	100.0%	24,288	100.0%	100.0%	100.0%
Iowa	**2,009,403**	**98.7%**	**100.0%**	**98.7%**	**1,145,601**	**91.2%**	**99.8%**	**91.1%**
Adair County					7,150	90.7%	100.0%	90.7%
Adams County					3,602	66.6%	100.0%	66.6%
Allamakee County	3,358	100.0%	100.0%	100.0%	10,329	79.8%	96.8%	77.8%
Appanoose County	4,944	100.0%	100.0%	100.0%	7,482	97.2%	98.7%	96.6%
Audubon County					5,496	92.8%	100.0%	92.8%
Benton County	4,796	99.4%	100.0%	99.4%	20,849	93.8%	100.0%	93.8%
Black Hawk County	112,654	100.0%	100.0%	100.0%	18,574	99.6%	100.0%	99.6%
Boone County	12,840	99.6%	100.0%	99.6%	13,394	97.8%	100.0%	97.8%

	Urban Areas				Rural Areas			
County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both
Bremer County	8,757	100.0%	100.0%	100.0%	16,300	99.6%	100.0%	99.6%
Buchanan County	6,553	99.3%	100.0%	99.3%	14,622	92.0%	100.0%	92.0%
Buena Vista County	10,553	100.0%	100.0%	100.0%	9,067	98.5%	100.0%	98.5%
Butler County					14,439	98.6%	100.0%	98.6%
Calhoun County					9,668	83.9%	100.0%	83.9%
Carroll County	9,490	100.0%	100.0%	100.0%	10,675	88.3%	100.0%	88.3%
Cass County	5,718	100.0%	100.0%	100.0%	7,118	98.7%	100.0%	98.7%
Cedar County	3,067	97.8%	100.0%	97.8%	15,560	87.7%	100.0%	87.7%
Cerro Gordo County	33,465	100.0%	100.0%	100.0%	8,985	99.9%	100.0%	99.9%
Cherokee County	4,153	100.0%	100.0%	100.0%	7,082	92.5%	100.0%	92.5%
Chickasaw County	2,965	99.6%	100.0%	99.6%	8,968	97.3%	100.0%	97.3%
Clarke County	4,731	97.1%	100.0%	97.1%	4,664	79.5%	99.8%	79.3%
Clay County	10,317	100.0%	100.0%	100.0%	5,699	96.7%	100.0%	96.7%
Clayton County	592	100.0%	100.0%	100.0%	16,957	77.4%	97.1%	76.3%
Clinton County	31,291	99.3%	100.0%	99.3%	15,138	90.5%	100.0%	90.5%
Crawford County	7,574	99.0%	100.0%	99.0%	9,246	80.2%	100.0%	80.2%
Dallas County	56,624	97.9%	100.0%	97.9%	36,801	97.9%	100.0%	97.9%
Davis County					9,000	84.5%	98.9%	83.4%
Decatur County					7,870	94.5%	100.0%	94.5%
Delaware County	4,659	99.1%	100.0%	99.1%	12,352	97.3%	99.4%	96.7%
Des Moines County	28,056	98.7%	100.0%	98.7%	10,911	84.8%	99.9%	84.7%
Dickinson County	11,013	99.9%	100.0%	99.9%	6,244	98.1%	100.0%	98.1%
Dubuque County	70,159	99.2%	100.0%	99.2%	27,151	98.2%	100.0%	98.1%
Emmet County	5,200	100.0%	100.0%	100.0%	4,008	98.5%	100.0%	98.5%
Fayette County	5,719	98.5%	100.0%	98.5%	13,931	89.7%	99.5%	89.2%
Floyd County	7,158	100.0%	100.0%	100.0%	8,484	98.6%	100.0%	98.6%
Franklin County	3,842	100.0%	100.0%	100.0%	6,228	98.2%	100.0%	98.2%
Fremont County	2	0.0%	100.0%	0.0%	6,958	98.0%	100.0%	98.0%
Greene County	3,546	100.0%	100.0%	100.0%	5,342	97.3%	100.0%	97.3%
Grundy County					12,232	99.9%	100.0%	99.9%
Guthrie County					10,689	93.5%	100.0%	93.5%

	Urban Areas				Rural Areas			
County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both
Hamilton County	6,959	98.0%	100.0%	98.0%	7,814	97.6%	100.0%	97.6%
Hancock County	2,960	100.0%	100.0%	100.0%	7,670	96.8%	100.0%	96.8%
Hardin County	4,619	99.8%	100.0%	99.8%	12,227	94.8%	100.0%	94.8%
Harrison County	2,557	100.0%	100.0%	100.0%	11,492	100.0%	100.0%	100.0%
Henry County	8,145	100.0%	100.0%	100.0%	11,809	81.9%	99.7%	81.7%
Howard County	3,335	99.8%	100.0%	99.8%	5,823	96.8%	99.9%	96.8%
Humboldt County	5,005	98.6%	100.0%	98.6%	4,553	70.5%	100.0%	70.5%
Ida County					6,860	94.8%	100.0%	94.8%
Iowa County	2,702	100.0%	100.0%	100.0%	13,481	82.3%	100.0%	82.3%
Jackson County	8,881	98.3%	100.0%	98.3%	10,557	90.3%	100.0%	90.3%
Jasper County	15,514	98.4%	100.0%	98.4%	21,670	86.0%	100.0%	86.0%
Jefferson County	10,680	100.0%	100.0%	100.0%	7,615	99.9%	100.0%	99.9%
Johnson County	117,183	98.3%	100.0%	98.3%	33,957	79.4%	100.0%	79.4%
Jones County	8,496	98.6%	100.0%	98.6%	12,185	91.9%	99.9%	91.8%
Keokuk County					10,245	85.0%	99.9%	84.9%
Kossuth County	4,768	99.7%	100.0%	99.7%	10,045	93.4%	100.0%	93.4%
Lee County	19,632	99.5%	100.0%	99.5%	14,025	86.5%	100.0%	86.5%
Linn County	194,407	99.1%	100.0%	99.1%	32,294	95.6%	100.0%	95.6%
Louisa County					11,035	77.5%	100.0%	77.5%
Lucas County	3,645	100.0%	100.0%	100.0%	4,955	91.7%	99.3%	91.3%
Lyon County					11,755	96.8%	100.0%	96.8%
Madison County	4,980	100.0%	100.0%	100.0%	11,358	96.7%	100.0%	96.7%
Mahaska County	12,078	98.7%	100.0%	98.7%	10,015	95.8%	99.9%	95.7%
Marion County	16,798	99.8%	100.0%	99.8%	16,455	80.3%	99.2%	80.0%
Marshall County	25,320	98.3%	100.0%	98.3%	14,049	87.7%	100.0%	87.7%
Mills County	5,949	100.0%	100.0%	100.0%	9,159	100.0%	100.0%	100.0%
Mitchell County	3,337	100.0%	100.0%	100.0%	7,247	98.9%	100.0%	98.9%
Monona County	2,391	100.0%	100.0%	100.0%	6,224	99.6%	100.0%	99.6%
Monroe County	3,324	100.0%	100.0%	100.0%	4,383	88.3%	98.5%	87.0%
Montgomery County	4,920	100.0%	100.0%	100.0%	4,997	98.5%	100.0%	98.5%
Muscatine County	31,589	96.5%	100.0%	96.5%	11,075	80.6%	100.0%	80.6%

	Urban Areas				Rural Areas			
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O'Brien County	4,235	100.0%	100.0%	100.0%	9,518	100.0%	100.0%	100.0%
Osceola County	2,324	100.0%	100.0%	100.0%	3,634	95.6%	100.0%	95.6%
Page County	9,796	99.6%	100.0%	99.6%	5,311	77.2%	100.0%	77.2%
Palo Alto County	3,066	99.4%	100.0%	99.4%	5,820	95.1%	100.0%	95.1%
Plymouth County	9,201	100.0%	100.0%	100.0%	15,975	96.4%	100.0%	96.4%
Pocahontas County					6,619	86.2%	100.0%	86.2%
Polk County	458,624	97.8%	100.0%	97.8%	31,533	91.6%	100.0%	91.6%
Pottawattamie County	68,128	100.0%	100.0%	100.0%	25,078	100.0%	100.0%	100.0%
Poweshiek County	8,363	98.1%	100.0%	98.1%	10,141	63.0%	100.0%	63.0%
Ringgold County					4,894	59.1%	100.0%	59.1%
Sac County					9,721	89.8%	100.0%	89.8%
Scott County	148,332	98.7%	100.0%	98.7%	24,611	94.1%	100.0%	94.1%
Shelby County	4,315	100.0%	100.0%	100.0%	7,139	99.5%	100.0%	99.5%
Sioux County	16,746	100.0%	100.0%	100.0%	18,109	98.7%	100.0%	98.7%
Story County	77,223	98.0%	100.0%	98.0%	19,894	85.3%	100.0%	85.3%
Tama County	4,577	97.4%	100.0%	97.4%	12,277	83.7%	100.0%	83.7%
Taylor County					6,121	69.8%	100.0%	69.8%
Union County	7,313	100.0%	100.0%	100.0%	4,928	83.5%	100.0%	83.5%
Van Buren County					7,044	74.4%	98.8%	73.3%
Wapello County	24,027	98.3%	100.0%	98.3%	10,942	85.9%	100.0%	85.9%
Warren County	28,424	99.6%	100.0%	99.6%	23,034	85.7%	99.8%	85.6%
Washington County	6,649	100.0%	100.0%	100.0%	15,316	85.8%	100.0%	85.8%
Wayne County					6,440	100.0%	100.0%	100.0%
Webster County	23,163	96.6%	100.0%	96.6%	12,741	97.0%	100.0%	97.0%
Winnebago County	3,205	100.0%	100.0%	100.0%	7,149	99.9%	100.0%	99.9%
Winneshiek County	7,655	84.9%	100.0%	84.9%	12,336	93.0%	98.3%	91.9%
Woodbury County	84,624	99.5%	100.0%	99.5%	18,482	85.9%	100.0%	85.9%
Worth County					7,381	99.9%	100.0%	99.9%
Wright County	5,443	99.9%	100.0%	99.9%	7,119	97.5%	100.0%	97.5%
Kansas	**2,157,805**	**98.7%**	**100.0%**	**98.7%**	**755,429**	**87.3%**	**100.0%**	**87.3%**
Allen County	4,919	100.0%	100.0%	100.0%	7,450	100.0%	100.0%	100.0%

	Urban Areas				Rural Areas			
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Anderson County	2,895	100.0%	100.0%	100.0%	4,963	100.0%	100.0%	100.0%
Atchison County	10,309	98.0%	100.0%	98.0%	5,764	52.0%	100.0%	52.0%
Barber County					4,427	87.6%	100.0%	87.6%
Barton County	17,545	99.1%	100.0%	99.1%	8,234	80.2%	100.0%	80.2%
Bourbon County	7,357	100.0%	100.0%	100.0%	7,177	98.4%	99.5%	97.9%
Brown County	2,871	100.0%	100.0%	100.0%	6,693	70.7%	100.0%	70.7%
Butler County	38,996	98.8%	100.0%	98.8%	27,913	88.5%	100.0%	88.5%
Chase County					2,648	18.5%	100.0%	18.5%
Chautauqua County					3,250	29.5%	100.0%	29.5%
Cherokee County	9,968	100.0%	100.0%	100.0%	9,971	97.3%	100.0%	97.3%
Cheyenne County					2,657	52.0%	100.0%	52.0%
Clark County					1,994	47.3%	100.0%	47.3%
Clay County	4,030	100.0%	100.0%	100.0%	3,972	97.9%	100.0%	97.9%
Cloud County	4,614	100.0%	100.0%	100.0%	4,172	98.4%	100.0%	98.4%
Coffey County	2,369	100.0%	100.0%	100.0%	5,810	100.0%	100.0%	100.0%
Comanche County					1,700	75.4%	100.0%	75.4%
Cowley County	23,569	99.3%	100.0%	99.3%	11,339	87.4%	100.0%	87.4%
Crawford County	25,094	99.7%	100.0%	99.7%	13,724	89.1%	100.0%	89.1%
Decatur County					2,827	73.3%	99.9%	73.3%
Dickinson County	6,245	99.7%	100.0%	99.7%	12,221	86.3%	100.0%	86.3%
Doniphan County	2,152	100.0%	100.0%	100.0%	5,448	74.5%	100.0%	74.5%
Douglas County	104,850	100.0%	100.0%	100.0%	17,394	100.0%	100.0%	100.0%
Edwards County					2,798	69.3%	100.0%	69.3%
Elk County					2,530	88.7%	100.0%	88.6%
Ellis County	20,849	100.0%	100.0%	100.0%	7,704	98.7%	100.0%	98.7%
Ellsworth County	2,607	99.4%	100.0%	99.4%	3,495	80.8%	100.0%	80.8%
Finney County	29,298	100.0%	100.0%	100.0%	7,169	96.9%	100.0%	96.9%
Ford County	26,141	94.0%	100.0%	94.0%	7,478	45.1%	100.0%	45.1%
Franklin County	11,769	100.0%	100.0%	100.0%	13,775	100.0%	100.0%	100.0%
Geary County	26,402	88.2%	100.0%	88.2%	5,268	67.8%	100.0%	67.8%
Gove County					2,636	71.5%	100.0%	71.5%

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Graham County					2,482	98.5%	100.0%	98.5%
Grant County	5,640	100.0%	100.0%	100.0%	1,510	100.0%	100.0%	100.0%
Gray County					5,988	80.9%	100.0%	80.9%
Greeley County					1,232	96.1%	100.0%	96.1%
Greenwood County	2,177	11.0%	100.0%	11.0%	3,805	54.6%	100.0%	54.6%
Hamilton County					2,539	100.0%	100.0%	100.0%
Harper County					5,436	99.2%	100.0%	99.2%
Harvey County	23,255	100.0%	100.0%	100.0%	11,170	100.0%	100.0%	100.0%
Haskell County					3,968	98.4%	100.0%	98.4%
Hodgeman County					1,794	62.4%	100.0%	62.4%
Jackson County	3,126	100.0%	100.0%	100.0%	10,045	90.5%	100.0%	90.5%
Jefferson County	228	100.0%	100.0%	100.0%	18,814	97.4%	100.0%	97.4%
Jewell County					2,878	97.0%	100.0%	97.0%
Johnson County	572,961	100.0%	100.0%	100.0%	29,428	99.8%	100.0%	99.8%
Kearny County					3,838	100.0%	100.0%	100.0%
Kingman County	2,554	98.7%	100.0%	98.7%	4,598	81.8%	100.0%	81.8%
Kiowa County					2,475	79.0%	100.0%	79.0%
Labette County	8,781	98.9%	100.0%	98.9%	10,837	58.4%	100.0%	58.4%
Lane County					1,535	98.0%	100.0%	98.0%
Leavenworth County	56,339	100.0%	100.0%	100.0%	25,417	88.3%	100.0%	88.3%
Lincoln County					2,962	86.1%	100.0%	86.1%
Linn County					9,703	100.0%	100.0%	100.0%
Logan County					2,794	89.2%	100.0%	89.2%
Lyon County	24,113	100.0%	100.0%	100.0%	9,082	99.5%	100.0%	99.5%
Marion County	2,324	99.3%	100.0%	99.3%	9,560	88.7%	100.0%	88.7%
Marshall County	2,698	100.0%	100.0%	100.0%	7,009	96.6%	100.0%	96.6%
McPherson County	15,399	98.9%	100.0%	98.9%	13,143	64.4%	100.0%	64.4%
Meade County					4,033	0.1%	100.0%	0.1%
Miami County	16,215	100.0%	100.0%	100.0%	18,021	100.0%	100.0%	100.0%
Mitchell County	3,131	100.0%	100.0%	100.0%	2,848	98.5%	100.0%	98.5%
Montgomery County	17,461	99.7%	100.0%	99.7%	14,368	91.9%	100.0%	91.9%

	Urban Areas				Rural Areas			
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Morris County					5,614	97.3%	100.0%	97.3%
Morton County					2,587	100.0%	100.0%	100.0%
Nemaha County	2,416	99.4%	100.0%	99.4%	7,814	65.7%	100.0%	65.7%
Neosho County	8,611	100.0%	100.0%	100.0%	7,395	94.6%	100.0%	94.6%
Ness County					2,750	88.8%	100.0%	88.8%
Norton County	2,683	100.0%	100.0%	100.0%	2,678	49.4%	100.0%	49.4%
Osage County	2,410	100.0%	100.0%	100.0%	13,539	100.0%	100.0%	100.0%
Osborne County					3,421	98.0%	100.0%	98.0%
Ottawa County					5,704	81.3%	100.0%	81.3%
Pawnee County	4,290	100.0%	100.0%	100.0%	2,124	70.2%	100.0%	70.2%
Phillips County	2,309	100.0%	100.0%	100.0%	2,925	56.5%	100.0%	56.5%
Pottawatomie County	9,275	97.9%	100.0%	97.9%	15,107	96.5%	100.0%	96.5%
Pratt County	6,132	96.8%	100.0%	96.8%	3,032	44.4%	100.0%	44.4%
Rawlins County					2,530	46.2%	100.0%	46.2%
Reno County	41,441	99.4%	100.0%	99.4%	20,557	90.9%	100.0%	90.9%
Republic County					4,636	93.1%	100.0%	93.1%
Rice County	3,283	98.3%	100.0%	98.3%	6,254	67.3%	100.0%	67.3%
Riley County	60,435	89.6%	100.0%	89.6%	13,793	84.5%	100.0%	84.5%
Rooks County					4,920	87.1%	100.0%	87.1%
Rush County					3,036	83.2%	100.0%	83.2%
Russell County	3,985	100.0%	100.0%	100.0%	2,871	98.5%	100.0%	98.5%
Saline County	46,072	98.9%	100.0%	98.9%	8,152	51.7%	100.0%	51.7%
Scott County	3,432	100.0%	100.0%	100.0%	1,391	99.9%	100.0%	99.9%
Sedgwick County	473,693	98.9%	100.0%	98.9%	42,329	96.1%	100.0%	96.1%
Seward County	18,899	60.9%	100.0%	60.9%	2,529	31.5%	100.0%	31.5%
Shawnee County	148,508	100.0%	100.0%	100.0%	28,367	100.0%	100.0%	100.0%
Sheridan County					2,521	76.5%	100.0%	76.5%
Sherman County	4,407	100.0%	100.0%	100.0%	1,510	47.3%	100.0%	47.3%
Smith County					3,583	87.6%	100.0%	87.6%
Stafford County					4,156	73.1%	100.0%	73.1%
Stanton County					2,006	100.0%	100.0%	100.0%

	Urban Areas				Rural Areas			
County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both
Stevens County	3,673	100.0%	100.0%	100.0%	1,812	96.1%	100.0%	96.1%
Sumner County	8,346	97.8%	100.0%	97.8%	14,490	90.0%	100.0%	90.0%
Thomas County	5,235	100.0%	100.0%	100.0%	2,536	70.1%	100.0%	70.1%
Trego County					2,803	88.2%	100.0%	88.2%
Wabaunsee County					6,929	67.1%	100.0%	67.1%
Wallace County					1,517	53.0%	99.9%	52.9%
Washington County					5,406	79.5%	100.0%	79.5%
Wichita County					2,119	95.2%	100.0%	95.2%
Wilson County	2,228	100.0%	100.0%	100.0%	6,297	100.0%	100.0%	100.0%
Woodson County					3,138	91.7%	100.0%	91.7%
Wyandotte County	154,791	99.9%	100.0%	99.9%	10,638	97.7%	100.0%	97.7%
Kentucky	**2,630,290**	**99.6%**	**100.0%**	**99.6%**	**1,837,358**	**86.7%**	**98.6%**	**85.5%**
Adair County	4,550	99.9%	100.0%	99.9%	14,652	71.7%	97.6%	69.9%
Allen County	4,471	100.0%	100.0%	100.0%	16,843	98.6%	98.6%	97.2%
Anderson County	12,937	100.0%	100.0%	100.0%	9,810	96.9%	100.0%	96.9%
Ballard County					7,888	79.7%	100.0%	79.7%
Barren County	15,939	88.9%	100.0%	88.9%	28,310	81.0%	99.5%	80.5%
Bath County					12,500	98.7%	100.0%	98.7%
Bell County	10,553	100.0%	100.0%	100.0%	15,479	97.5%	99.9%	97.3%
Boone County	113,584	99.6%	100.0%	99.6%	19,994	97.4%	100.0%	97.4%
Bourbon County	10,866	100.0%	100.0%	100.0%	8,922	98.8%	100.0%	98.8%
Boyd County	34,576	99.4%	100.0%	99.4%	12,142	91.7%	96.7%	89.6%
Boyle County	19,278	100.0%	100.0%	100.0%	10,782	97.9%	100.0%	97.9%
Bracken County					8,303	98.9%	100.0%	98.9%
Breathitt County	2,374	82.7%	100.0%	82.7%	10,256	65.3%	73.6%	54.0%
Breckinridge County					20,477	74.6%	100.0%	74.6%
Bullitt County	55,916	100.0%	100.0%	100.0%	25,757	98.2%	100.0%	98.2%
Butler County					12,879	27.1%	99.8%	27.0%
Caldwell County	5,655	99.7%	100.0%	99.7%	7,092	43.3%	100.0%	43.3%
Calloway County	19,423	100.0%	100.0%	100.0%	19,578	91.2%	100.0%	91.2%
Campbell County	78,780	100.0%	100.0%	100.0%	14,804	96.3%	100.0%	96.3%

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Carlisle County					4,760	96.0%	100.0%	96.0%
Carroll County	4,976	100.0%	100.0%	100.0%	5,655	65.5%	100.0%	65.5%
Carter County	5,629	96.2%	100.0%	96.2%	21,168	88.0%	93.7%	82.8%
Casey County					16,159	92.1%	96.8%	89.4%
Christian County	47,985	97.4%	100.0%	97.4%	22,476	65.4%	100.0%	65.4%
Clark County	26,023	100.0%	100.0%	100.0%	10,240	88.2%	100.0%	88.2%
Clay County	4,379	99.9%	100.0%	99.9%	15,522	96.6%	95.4%	92.5%
Clinton County					10,218	92.1%	100.0%	92.1%
Crittenden County	2,540	99.3%	100.0%	99.3%	6,266	52.8%	100.0%	52.8%
Cumberland County					6,614	57.2%	98.9%	57.2%
Daviess County	73,309	100.0%	100.0%	100.0%	28,201	65.8%	100.0%	65.8%
Edmonson County					12,150	89.6%	97.2%	86.8%
Elliott County					7,517	100.0%	65.8%	65.8%
Estill County	3,419	99.0%	100.0%	99.0%	10,687	97.0%	99.9%	97.0%
Fayette County	311,177	100.0%	100.0%	100.0%	11,975	92.9%	100.0%	92.9%
Fleming County	2,807	100.0%	100.0%	100.0%	11,774	99.1%	100.0%	99.1%
Floyd County	6,299	94.4%	100.0%	94.4%	29,290	94.1%	95.7%	90.0%
Franklin County	36,742	99.8%	100.0%	99.8%	14,248	98.7%	100.0%	98.7%
Fulton County	2,267	97.4%	100.0%	97.4%	3,702	41.4%	100.0%	41.4%
Gallatin County					8,869	86.3%	100.0%	86.3%
Garrard County	3,793	99.7%	100.0%	99.7%	13,873	89.7%	100.0%	89.7%
Grant County	8,649	99.9%	100.0%	99.9%	16,420	93.8%	100.0%	93.8%
Graves County	11,091	99.6%	100.0%	99.6%	26,175	92.8%	100.0%	92.8%
Grayson County	6,908	99.0%	100.0%	99.0%	19,519	87.2%	100.0%	87.2%
Green County					10,941	87.9%	98.7%	87.2%
Greenup County	21,251	99.7%	100.0%	99.7%	13,847	89.2%	97.6%	87.2%
Hancock County	931	0.0%	100.0%	0.0%	7,791	20.5%	100.0%	20.5%
Hardin County	71,347	100.0%	100.0%	100.0%	39,609	100.0%	100.0%	100.0%
Harlan County	12,669	99.3%	98.5%	98.0%	13,341	82.9%	91.2%	75.9%
Harrison County	6,370	100.0%	100.0%	100.0%	12,515	99.8%	100.0%	99.8%
Hart County	2,434	99.7%	100.0%	99.7%	16,601	89.2%	99.7%	88.9%

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Henderson County	27,587	98.8%	100.0%	98.8%	17,623	74.3%	100.0%	74.3%
Henry County					16,126	84.2%	100.0%	84.2%
Hickman County					4,380	32.5%	100.0%	32.5%
Hopkins County	22,769	100.0%	100.0%	100.0%	21,917	63.2%	100.0%	63.2%
Jackson County					13,329	100.0%	98.6%	98.6%
Jefferson County	755,192	100.0%	100.0%	100.0%	11,565	99.7%	100.0%	99.7%
Jessamine County	39,164	99.9%	100.0%	99.9%	14,951	95.0%	100.0%	95.0%
Johnson County	6,064	99.6%	100.0%	99.6%	16,124	98.5%	98.7%	97.2%
Kenton County	154,696	100.0%	100.0%	100.0%	12,302	93.6%	100.0%	93.6%
Knott County					14,806	99.2%	91.7%	90.9%
Knox County	11,458	96.0%	100.0%	96.0%	19,687	94.2%	99.9%	94.1%
Larue County	3,419	99.6%	100.0%	99.6%	10,978	83.8%	99.7%	83.5%
Laurel County	26,375	99.8%	100.0%	99.8%	34,438	98.0%	100.0%	98.0%
Lawrence County	3,512	100.0%	100.0%	100.0%	11,805	100.0%	85.5%	85.5%
Lee County					7,401	45.4%	100.0%	45.4%
Leslie County					9,877	79.3%	89.6%	71.0%
Letcher County					21,553	96.7%	99.6%	96.4%
Lewis County					13,275	91.6%	94.7%	87.8%
Lincoln County	4,511	100.0%	100.0%	100.0%	20,038	74.2%	100.0%	74.2%
Livingston County	419	100.0%	100.0%	100.0%	8,775	82.3%	100.0%	82.3%
Logan County	6,688	99.7%	100.0%	99.7%	20,414	62.8%	100.0%	62.8%
Lyon County					8,210	28.2%	100.0%	28.2%
Madison County	55,777	99.8%	100.0%	99.8%	37,210	90.0%	100.0%	90.0%
Magoffin County					12,161	100.0%	91.2%	91.2%
Marion County	5,373	100.0%	100.0%	100.0%	13,900	87.4%	97.8%	85.7%
Marshall County	4,394	100.0%	100.0%	100.0%	26,706	96.4%	100.0%	96.4%
Martin County					11,195	81.9%	98.0%	80.1%
Mason County	7,592	100.0%	100.0%	100.0%	9,478	100.0%	100.0%	100.0%
McCracken County	46,992	98.6%	100.0%	98.6%	18,425	95.5%	100.0%	95.5%
McCreary County					17,231	100.0%	98.8%	98.8%
McLean County					9,207	50.6%	100.0%	50.6%

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Meade County	4,058	100.0%	100.0%	100.0%	24,514	100.0%	99.7%	99.7%
Menifee County					6,489	100.0%	100.0%	100.0%
Mercer County	8,864	100.0%	100.0%	100.0%	13,069	98.2%	100.0%	98.2%
Metcalfe County					10,071	76.1%	98.1%	75.4%
Monroe County					10,650	88.1%	94.0%	84.3%
Montgomery County	11,237	100.0%	100.0%	100.0%	16,920	100.0%	100.0%	100.0%
Morgan County					13,309	100.0%	93.0%	93.0%
Muhlenberg County	9,681	97.5%	100.0%	97.5%	20,941	72.4%	100.0%	72.4%
Nelson County	19,511	98.7%	100.0%	98.7%	26,722	93.9%	99.9%	93.8%
Nicholas County					7,269	100.0%	100.0%	100.0%
Ohio County	6,315	100.0%	100.0%	100.0%	17,679	28.4%	100.0%	28.4%
Oldham County	52,479	100.0%	100.0%	100.0%	14,320	93.5%	100.0%	93.5%
Owen County					10,901	89.9%	100.0%	89.9%
Owsley County					4,415	100.0%	96.5%	96.5%
Pendleton County					14,590	85.2%	100.0%	85.2%
Perry County	7,055	98.8%	100.0%	98.8%	18,703	96.8%	89.1%	87.7%
Pike County	7,776	94.9%	100.0%	94.9%	50,100	93.8%	98.5%	92.6%
Powell County	4,117	80.2%	100.0%	80.2%	8,242	73.9%	100.0%	73.9%
Pulaski County	29,594	100.0%	100.0%	100.0%	35,385	96.5%	100.0%	96.5%
Robertson County					2,108	100.0%	100.0%	100.0%
Rockcastle County	2,773	99.5%	100.0%	99.5%	13,922	94.4%	100.0%	94.3%
Rowan County	7,238	100.0%	100.0%	100.0%	17,222	98.6%	96.9%	95.6%
Russell County					17,923	86.0%	100.0%	86.0%
Scott County	36,422	100.0%	100.0%	100.0%	20,579	96.7%	100.0%	96.7%
Shelby County	24,500	100.0%	100.0%	100.0%	24,521	99.6%	100.0%	99.6%
Simpson County	9,942	97.9%	100.0%	97.9%	8,630	33.7%	100.0%	33.7%
Spencer County					19,351	99.3%	100.0%	99.3%
Taylor County	12,245	99.3%	100.0%	99.3%	13,522	89.0%	97.9%	87.4%
Todd County					12,294	49.5%	100.0%	49.5%
Trigg County	2,977	99.3%	100.0%	99.3%	11,674	62.2%	100.0%	62.2%
Trimble County	461	98.7%	100.0%	98.7%	8,010	82.3%	100.0%	82.3%

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Union County	4,681	99.6%	100.0%	99.6%	9,700	72.0%	100.0%	72.0%
Warren County	88,418	100.0%	100.0%	100.0%	44,477	80.3%	100.0%	80.3%
Washington County					12,095	84.0%	100.0%	84.0%
Wayne County	6,722	79.2%	100.0%	79.2%	13,611	85.0%	91.4%	79.4%
Webster County					12,942	63.0%	100.0%	63.0%
Whitley County	12,601	100.0%	100.0%	100.0%	23,663	94.7%	100.0%	94.7%
Wolfe County					7,157	100.0%	100.0%	100.0%
Woodford County	16,744	100.0%	100.0%	100.0%	9,990	97.6%	100.0%	97.6%
Louisiana	**3,398,293**	**97.1%**	**100.0%**	**97.1%**	**1,250,495**	**65.0%**	**100.0%**	**65.0%**
Acadia Parish	29,810	97.8%	100.0%	97.8%	32,235	48.2%	100.0%	48.2%
Allen Parish	7,859	100.0%	100.0%	100.0%	17,768	43.8%	100.0%	43.8%
Ascension Parish	107,224	99.8%	100.0%	99.8%	19,380	93.3%	100.0%	93.3%
Assumption Parish	12,307	100.0%	100.0%	100.0%	9,584	97.4%	100.0%	97.4%
Avoyelles Parish	13,915	91.9%	100.0%	91.9%	26,229	62.4%	100.0%	62.4%
Beauregard Parish	12,160	87.7%	100.0%	87.7%	25,337	21.6%	100.0%	21.6%
Bienville Parish	2,437	49.4%	100.0%	49.4%	10,804	14.9%	100.0%	14.9%
Bossier Parish	92,583	96.5%	100.0%	96.5%	34,456	63.1%	100.0%	63.1%
Caddo Parish	204,835	98.7%	100.0%	98.7%	35,369	81.8%	100.0%	81.8%
Calcasieu Parish	160,616	95.4%	100.0%	95.4%	42,819	67.6%	100.0%	67.6%
Caldwell Parish					9,918	52.1%	99.9%	52.1%
Cameron Parish					6,973	1.8%	99.5%	1.8%
Catahoula Parish					9,494	26.3%	100.0%	26.3%
Claiborne Parish	2,727	99.4%	100.0%	99.4%	12,943	39.6%	99.9%	39.6%
Concordia Parish	12,343	95.3%	100.0%	95.3%	6,916	41.7%	100.0%	41.7%
De Soto Parish	6,141	99.5%	100.0%	99.5%	21,322	64.6%	100.0%	64.6%
East Baton Rouge Parish	409,345	100.0%	100.0%	100.0%	30,714	100.0%	100.0%	100.0%
East Carroll Parish	4,518	88.3%	100.0%	88.3%	2,343	25.1%	100.0%	25.1%
East Feliciana Parish					19,135	25.8%	100.0%	25.8%
Evangeline Parish	13,112	35.8%	100.0%	35.8%	20,283	65.0%	100.0%	65.0%
Franklin Parish	5,060	93.7%	100.0%	93.7%	14,955	11.3%	100.0%	11.3%
Grant Parish	3,203	99.6%	100.0%	99.6%	19,186	23.5%	100.0%	23.5%

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Iberia Parish	49,937	100.0%	100.0%	100.0%	19,893	99.9%	100.0%	99.9%
Iberville Parish	13,537	98.6%	100.0%	98.6%	18,974	75.3%	100.0%	75.3%
Jackson Parish	5,400	0.0%	100.0%	0.0%	10,344	13.5%	100.0%	13.5%
Jefferson Davis Parish	15,020	97.9%	100.0%	97.9%	16,348	55.5%	100.0%	55.5%
Jefferson Parish	427,270	98.4%	100.0%	98.4%	5,223	98.0%	98.2%	96.3%
LaSalle Parish	3,930	100.0%	100.0%	100.0%	10,962	25.5%	100.0%	25.5%
Lafayette Parish	222,829	98.0%	100.0%	98.0%	21,558	92.7%	100.0%	92.7%
Lafourche Parish	73,762	99.6%	100.0%	99.6%	23,852	98.9%	100.0%	98.9%
Lincoln Parish	26,764	89.8%	100.0%	89.8%	19,978	51.5%	100.0%	51.5%
Livingston Parish	79,985	99.2%	100.0%	99.2%	60,804	97.9%	100.0%	97.9%
Madison Parish	8,064	90.3%	100.0%	90.3%	2,887	12.7%	100.0%	12.7%
Morehouse Parish	13,077	93.0%	100.0%	93.0%	11,797	79.2%	100.0%	79.2%
Natchitoches Parish	18,618	96.8%	100.0%	96.8%	19,540	39.2%	99.9%	39.2%
Orleans Parish	386,515	93.7%	100.0%	93.7%	3,629	67.8%	100.0%	67.8%
Ouachita Parish	115,489	97.9%	100.0%	97.9%	37,790	93.3%	100.0%	93.3%
Plaquemines Parish	18,486	80.5%	100.0%	80.5%	4,711	55.1%	100.0%	55.1%
Pointe Coupee Parish	9,240	99.4%	100.0%	99.4%	12,490	71.9%	100.0%	71.9%
Rapides Parish	79,124	95.4%	100.0%	95.4%	50,524	61.4%	100.0%	61.4%
Red River Parish					8,442	31.7%	100.0%	31.7%
Richland Parish	6,732	98.8%	100.0%	98.8%	13,390	24.5%	100.0%	24.5%
Sabine Parish	2,669	69.7%	100.0%	69.7%	21,215	18.9%	100.0%	18.9%
St. Bernard Parish	44,223	95.1%	100.0%	95.1%	3,021	80.7%	99.8%	80.7%
St. Charles Parish	46,803	98.7%	100.0%	98.7%	6,297	86.2%	100.0%	86.2%
St. Helena Parish					10,132	28.3%	100.0%	28.3%
St. James Parish	15,272	99.8%	100.0%	99.8%	5,824	98.6%	100.0%	98.6%
St. John the Baptist Parish	38,559	100.0%	100.0%	100.0%	4,278	99.6%	100.0%	99.6%
St. Landry Parish	42,657	99.8%	100.0%	99.8%	39,467	89.3%	100.0%	89.3%
St. Martin Parish	26,837	99.7%	100.0%	99.7%	26,594	99.0%	100.0%	99.0%
St. Mary Parish	43,461	99.2%	100.0%	99.2%	5,887	91.8%	100.0%	91.8%
St. Tammany Parish	193,399	99.9%	100.0%	99.9%	67,020	95.4%	100.0%	95.4%

	Urban Areas				Rural Areas			
County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both
Tangipahoa Parish	77,260	99.9%	100.0%	99.9%	57,496	73.8%	100.0%	73.8%
Tensas Parish					4,334	3.0%	100.0%	3.0%
Terrebonne Parish	87,410	99.8%	100.0%	99.8%	23,051	99.4%	100.0%	99.4%
Union Parish	3,477	89.2%	100.0%	89.2%	18,631	23.8%	100.0%	23.8%
Vermilion Parish	26,845	98.9%	100.0%	98.9%	32,666	93.8%	100.0%	93.8%
Vernon Parish	19,447	81.6%	100.0%	81.6%	27,982	43.0%	100.0%	43.0%
Washington Parish	15,679	82.3%	100.0%	82.3%	30,515	27.0%	100.0%	27.0%
Webster Parish	17,791	92.5%	100.0%	92.5%	20,549	47.2%	100.0%	47.2%
West Baton Rouge Parish	17,831	95.1%	100.0%	95.1%	8,634	83.4%	100.0%	83.4%
West Carroll Parish					10,830	31.9%	100.0%	31.9%
West Feliciana Parish					15,568	35.4%	100.0%	35.4%
Winn Parish	4,699	86.7%	100.0%	86.7%	9,205	16.3%	98.9%	16.3%
Maine	**509,068**	**99.6%**	**99.9%**	**99.5%**	**835,138**	**94.7%**	**99.0%**	**93.8%**
Androscoggin County	61,106	100.0%	100.0%	100.0%	47,171	99.6%	100.0%	99.6%
Aroostook County	13,112	100.0%	100.0%	100.0%	53,943	89.6%	89.0%	79.6%
Cumberland County	185,429	99.9%	99.8%	99.7%	109,573	99.5%	99.8%	99.2%
Franklin County	4,949	99.3%	100.0%	99.3%	25,249	88.9%	99.1%	88.5%
Hancock County	5,387	100.0%	100.0%	100.0%	49,600	90.0%	99.6%	89.7%
Kennebec County	44,700	100.0%	100.0%	100.0%	77,602	99.7%	100.0%	99.7%
Knox County	12,740	100.0%	100.0%	100.0%	27,032	97.6%	99.6%	97.3%
Lincoln County					34,634	96.5%	99.8%	96.2%
Oxford County	9,709	100.0%	100.0%	100.0%	48,266	90.5%	99.7%	90.4%
Penobscot County	63,084	97.8%	100.0%	97.8%	89,061	92.6%	99.8%	92.5%
Piscataquis County					16,785	82.2%	99.3%	81.8%
Sagadahoc County	13,175	99.4%	100.0%	99.4%	22,681	97.4%	100.0%	97.4%
Somerset County	9,841	99.9%	100.0%	99.9%	40,643	89.2%	97.4%	87.5%
Waldo County	3,420	100.0%	100.0%	100.0%	36,295	87.9%	99.9%	87.8%
Washington County	2,405	100.0%	100.0%	100.0%	28,974	89.5%	99.9%	89.4%
York County	80,011	99.3%	99.9%	99.2%	127,629	98.7%	99.8%	98.6%
Maryland	**5,231,765**	**98.1%**	**100.0%**	**98.0%**	**813,910**	**93.8%**	**99.9%**	**93.8%**
Allegany County	51,358	95.1%	100.0%	95.1%	19,058	78.6%	99.8%	78.6%

	Urban Areas				Rural Areas			
County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both
Anne Arundel County	546,652	97.6%	99.9%	97.4%	32,582	98.2%	100.0%	98.2%
Baltimore County	768,828	98.3%	100.0%	98.3%	58,542	98.1%	100.0%	98.1%
Baltimore city	593,490	98.7%	100.0%	98.7%				
Calvert County	56,146	98.5%	100.0%	98.5%	36,379	96.7%	100.0%	96.7%
Caroline County	7,798	99.6%	100.0%	99.6%	25,607	91.4%	100.0%	91.4%
Carroll County	101,475	98.8%	100.0%	98.8%	66,972	96.2%	100.0%	96.2%
Cecil County	59,210	97.9%	100.0%	97.9%	43,645	95.3%	100.0%	95.3%
Charles County	109,030	97.7%	100.0%	97.7%	54,226	80.9%	100.0%	80.9%
Dorchester County	13,699	99.7%	99.4%	99.1%	18,230	81.3%	99.9%	81.2%
Frederick County	186,952	97.5%	100.0%	97.5%	72,594	98.5%	100.0%	98.5%
Garrett County	4,712	100.0%	100.0%	100.0%	24,302	90.1%	100.0%	90.1%
Harford County	207,553	99.3%	100.0%	99.3%	47,888	98.0%	100.0%	98.0%
Howard County	289,854	97.5%	100.0%	97.5%	35,836	99.4%	100.0%	99.4%
Kent County	4,834	100.0%	100.0%	100.0%	14,588	97.1%	100.0%	97.1%
Montgomery County	1,021,685	98.8%	100.0%	98.8%	29,003	97.8%	100.0%	97.8%
Prince George's County	886,255	97.2%	100.0%	97.2%	23,072	89.9%	100.0%	89.9%
Queen Anne's County	22,433	100.0%	97.8%	97.7%	27,948	97.3%	99.9%	97.2%
Somerset County	13,475	89.2%	99.9%	89.2%	12,141	93.1%	99.9%	93.0%
St. Mary's County	55,032	96.3%	100.0%	96.3%	58,478	97.0%	99.7%	96.7%
Talbot County	16,519	98.3%	100.0%	98.3%	20,661	78.3%	99.5%	78.1%
Washington County	105,631	96.3%	100.0%	96.3%	45,417	97.7%	100.0%	97.7%
Wicomico County	75,716	100.0%	100.0%	100.0%	27,893	93.6%	100.0%	93.6%
Worcester County	33,428	98.2%	98.8%	97.0%	18,848	77.5%	99.8%	77.4%
Massachusetts	**6,338,356**	**98.4%**	**100.0%**	**98.3%**	**554,141**	**93.3%**	**99.9%**	**93.2%**
Barnstable County	197,022	98.6%	100.0%	98.6%	15,968	98.7%	98.7%	97.4%
Berkshire County	85,072	99.9%	100.0%	99.9%	39,872	81.3%	100.0%	81.3%
Bristol County	508,943	98.3%	100.0%	98.3%	56,274	99.4%	100.0%	99.4%
Dukes County	10,247	91.2%	100.0%	91.2%	7,085	95.0%	100.0%	95.0%
Essex County	753,951	98.9%	100.0%	98.8%	35,083	98.9%	99.5%	98.5%

	Urban Areas				Rural Areas			
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Franklin County	31,461	98.7%	100.0%	98.7%	38,719	69.1%	100.0%	69.1%
Hampden County	425,465	98.7%	100.0%	98.7%	40,907	92.3%	100.0%	92.3%
Hampshire County	115,828	87.5%	100.0%	87.5%	45,002	86.8%	100.0%	86.8%
Middlesex County	1,560,454	98.6%	100.0%	98.6%	51,245	99.4%	100.0%	99.4%
Nantucket County	8,885	99.4%	100.0%	99.4%	2,514	96.4%	100.0%	96.4%
Norfolk County	697,777	97.8%	99.9%	97.7%	8,994	98.8%	100.0%	98.8%
Plymouth County	465,479	97.9%	100.0%	97.9%	55,721	97.3%	100.0%	97.3%
Suffolk County	803,265	98.5%	99.9%	98.4%	642	0.8%	98.8%	0.0%
Worcester County	674,507	99.4%	100.0%	99.4%	156,115	96.9%	100.0%	96.9%
Michigan	**7,417,732**	**99.1%**	**100.0%**	**99.1%**	**2,568,448**	**86.3%**	**99.9%**	**86.3%**
Alcona County	99	100.0%	100.0%	100.0%	10,305	70.2%	100.0%	70.2%
Alger County	2,834	99.8%	100.0%	99.8%	6,274	65.1%	99.1%	64.8%
Allegan County	41,241	99.9%	100.0%	99.9%	76,832	85.1%	100.0%	85.1%
Alpena County	13,784	100.0%	100.0%	100.0%	14,621	84.7%	100.0%	84.7%
Antrim County					23,324	99.9%	100.0%	99.9%
Arenac County					14,883	69.7%	99.6%	69.3%
Baraga County					8,209	63.4%	100.0%	63.4%
Barry County	13,931	99.9%	100.0%	99.9%	47,615	75.0%	100.0%	75.0%
Bay County	70,735	100.0%	100.0%	100.0%	32,391	83.1%	99.8%	82.9%
Benzie County					17,766	93.9%	100.0%	93.9%
Berrien County	102,038	98.0%	100.0%	98.0%	51,363	88.4%	100.0%	88.4%
Branch County	15,065	100.0%	100.0%	100.0%	28,452	99.3%	100.0%	99.3%
Calhoun County	91,716	99.8%	100.0%	99.8%	42,443	85.5%	100.0%	85.5%
Cass County	14,561	96.6%	100.0%	96.6%	37,223	98.0%	100.0%	98.0%
Charlevoix County	7,548	100.0%	100.0%	100.0%	18,595	97.4%	100.0%	97.4%
Cheboygan County	4,243	100.0%	100.0%	100.0%	21,033	76.1%	99.9%	75.9%
Chippewa County	18,639	100.0%	100.0%	100.0%	18,710	53.1%	99.3%	53.1%
Clare County	8,676	100.0%	100.0%	100.0%	22,273	89.9%	100.0%	89.9%
Clinton County	36,898	99.7%	100.0%	99.7%	42,692	98.0%	100.0%	98.0%
Crawford County	3,657	100.0%	100.0%	100.0%	10,371	91.4%	100.0%	91.4%
Delta County	20,066	100.0%	100.0%	100.0%	15,718	62.3%	99.2%	62.3%

	Urban Areas				Rural Areas			
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Dickinson County	17,162	83.6%	100.0%	83.6%	8,077	51.2%	100.0%	51.2%
Eaton County	68,054	98.6%	100.0%	98.6%	42,203	89.3%	100.0%	89.3%
Emmet County	8,235	100.0%	100.0%	100.0%	25,180	99.0%	99.9%	98.9%
Genesee County	334,885	99.3%	100.0%	99.3%	70,928	97.0%	100.0%	97.0%
Gladwin County	2,666	100.0%	100.0%	100.0%	22,781	96.7%	100.0%	96.7%
Gogebic County	4,901	100.0%	100.0%	100.0%	9,074	69.5%	99.8%	69.5%
Grand Traverse County	46,686	100.0%	100.0%	100.0%	45,883	96.3%	100.0%	96.3%
Gratiot County	15,217	100.0%	100.0%	100.0%	25,489	100.0%	100.0%	100.0%
Hillsdale County	13,474	100.0%	100.0%	100.0%	32,131	97.6%	100.0%	97.6%
Houghton County	21,952	99.2%	100.0%	99.2%	13,732	60.1%	99.9%	60.1%
Huron County	2,729	98.2%	100.0%	98.2%	28,252	64.7%	99.7%	64.4%
Ingham County	252,584	98.5%	100.0%	98.5%	39,822	96.4%	100.0%	96.4%
Ionia County	25,393	100.0%	100.0%	100.0%	39,292	100.0%	100.0%	100.0%
Iosco County	10,140	100.0%	98.3%	98.3%	14,941	79.3%	100.0%	79.3%
Iron County	3,195	67.1%	100.0%	67.1%	7,871	45.8%	99.3%	45.8%
Isabella County	35,993	100.0%	100.0%	100.0%	33,879	99.8%	100.0%	99.8%
Jackson County	91,454	93.4%	100.0%	93.4%	67,056	90.7%	100.0%	90.7%
Kalamazoo County	217,207	99.7%	100.0%	99.7%	47,856	91.6%	100.0%	91.6%
Kalkaska County	2,653	100.0%	100.0%	100.0%	15,382	87.7%	100.0%	87.7%
Kent County	547,726	100.0%	100.0%	100.0%	109,221	100.0%	100.0%	100.0%
Keweenaw County					2,116	53.5%	87.8%	53.5%
Lake County					11,853	42.6%	100.0%	42.6%
Lapeer County	19,671	100.0%	100.0%	100.0%	67,936	78.3%	100.0%	78.3%
Leelanau County	1,871	100.0%	97.6%	97.6%	19,890	96.1%	100.0%	96.1%
Lenawee County	46,709	98.4%	100.0%	98.4%	51,739	90.2%	100.0%	90.2%
Livingston County	120,311	99.6%	100.0%	99.6%	71,682	98.4%	100.0%	98.4%
Luce County	3,044	3.9%	100.0%	3.9%	3,185	4.0%	99.0%	4.0%
Mackinac County	2,370	100.0%	100.0%	100.0%	8,429	45.2%	100.0%	45.2%
Macomb County	848,522	99.2%	100.0%	99.2%	25,450	78.7%	100.0%	78.7%
Manistee County	9,383	100.0%	100.0%	100.0%	15,175	61.5%	99.6%	61.1%
Marquette County	38,090	99.9%	100.0%	99.9%	28,609	75.1%	99.3%	75.1%

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Mason County	10,797	100.0%	100.0%	100.0%	18,347	89.5%	100.0%	89.5%
Mecosta County	14,017	100.0%	100.0%	100.0%	29,436	100.0%	100.0%	100.0%
Menominee County	8,191	100.0%	100.0%	100.0%	14,589	47.3%	99.7%	47.3%
Midland County	47,316	99.9%	100.0%	99.9%	35,840	94.9%	100.0%	94.9%
Missaukee County					15,118	43.9%	100.0%	43.9%
Monroe County	93,235	99.2%	100.0%	99.2%	57,265	90.5%	100.0%	90.5%
Montcalm County	9,655	100.0%	100.0%	100.0%	54,233	100.0%	100.0%	100.0%
Montmorency County					9,327	70.2%	100.0%	70.2%
Muskegon County	132,494	99.6%	100.0%	99.6%	41,072	92.1%	100.0%	92.1%
Newaygo County	7,834	99.5%	100.0%	99.5%	41,140	75.4%	100.0%	75.4%
Oakland County	1,196,142	99.1%	100.0%	99.1%	61,442	98.8%	100.0%	98.8%
Oceana County	2,621	99.7%	100.0%	99.7%	23,846	73.7%	100.0%	73.7%
Ogemaw County					20,994	91.0%	100.0%	91.0%
Ontonagon County					5,720	67.3%	99.8%	67.3%
Osceola County					23,455	97.2%	100.0%	97.2%
Oscoda County					8,241	95.6%	100.0%	95.6%
Otsego County	8,275	100.0%	100.0%	100.0%	16,393	92.3%	100.0%	92.3%
Ottawa County	229,136	100.0%	100.0%	100.0%	62,679	98.4%	100.0%	98.4%
Presque Isle County	2,361	100.0%	100.0%	100.0%	10,231	82.0%	100.0%	82.0%
Roscommon County	8,129	100.0%	100.0%	100.0%	15,888	93.4%	100.0%	93.4%
Saginaw County	128,084	99.8%	100.0%	99.8%	62,455	86.9%	100.0%	86.9%
Sanilac County	3,651	32.6%	100.0%	32.6%	37,519	34.4%	100.0%	34.4%
Schoolcraft County	3,272	100.0%	100.0%	100.0%	4,822	28.2%	98.0%	28.2%
Shiawassee County	29,726	100.0%	100.0%	100.0%	38,396	84.9%	100.0%	84.9%
St. Clair County	96,292	98.7%	99.4%	98.1%	62,836	74.1%	100.0%	74.1%
St. Joseph County	27,565	97.7%	100.0%	97.7%	33,399	84.1%	100.0%	84.1%
Tuscola County	7,341	99.9%	100.0%	99.9%	44,904	65.1%	100.0%	65.1%
Van Buren County	21,766	97.3%	100.0%	97.3%	53,906	81.2%	100.0%	81.2%
Washtenaw County	303,061	98.4%	100.0%	98.4%	64,540	97.4%	100.0%	97.4%
Wayne County	1,736,909	99.2%	100.0%	99.2%	12,434	99.0%	100.0%	99.0%
Wexford County	11,854	100.0%	100.0%	100.0%	21,774	49.2%	100.0%	49.2%

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Minnesota	**4,128,809**	**99.8%**	**100.0%**	**99.8%**	**1,510,636**	**91.4%**	**99.9%**	**91.3%**
Aitkin County					15,886	72.2%	100.0%	72.2%
Anoka County	304,638	99.7%	100.0%	99.7%	52,271	96.8%	100.0%	96.8%
Becker County	8,099	100.0%	100.0%	100.0%	26,323	92.4%	100.0%	92.4%
Beltrami County	14,985	100.0%	100.0%	100.0%	32,197	99.0%	99.3%	98.3%
Benton County	23,708	100.0%	100.0%	100.0%	17,179	82.3%	100.0%	82.3%
Big Stone County					4,991	93.5%	100.0%	93.5%
Blue Earth County	48,100	100.0%	100.0%	100.0%	19,550	97.3%	100.0%	97.3%
Brown County	15,947	99.0%	100.0%	99.0%	9,061	95.7%	100.0%	95.7%
Carlton County	15,761	97.6%	100.0%	97.6%	20,110	61.4%	100.0%	61.4%
Carver County	81,185	99.9%	100.0%	99.9%	23,896	99.6%	100.0%	99.6%
Cass County					29,778	89.7%	100.0%	89.7%
Chippewa County	5,681	100.0%	100.0%	100.0%	6,119	100.0%	100.0%	100.0%
Chisago County	24,580	99.4%	100.0%	99.4%	31,984	86.5%	100.0%	86.5%
Clay County	44,115	99.1%	100.0%	99.1%	20,106	97.0%	100.0%	97.0%
Clearwater County					8,817	100.0%	100.0%	100.0%
Cook County					5,463	98.5%	92.9%	92.2%
Cottonwood County	3,993	100.0%	100.0%	100.0%	7,203	100.0%	100.0%	100.0%
Crow Wing County	23,809	99.6%	100.0%	99.6%	41,246	92.5%	100.0%	92.5%
Dakota County	405,337	100.0%	100.0%	100.0%	23,679	99.5%	100.0%	99.5%
Dodge County	9,876	100.0%	100.0%	100.0%	11,056	100.0%	100.0%	100.0%
Douglas County	17,037	100.0%	100.0%	100.0%	21,103	99.4%	100.0%	99.4%
Faribault County	2,785	100.0%	100.0%	100.0%	10,868	98.1%	100.0%	98.1%
Fillmore County	1,396	100.0%	100.0%	100.0%	19,671	96.4%	99.5%	95.9%
Freeborn County	16,945	100.0%	100.0%	100.0%	13,336	100.0%	100.0%	100.0%
Goodhue County	24,222	100.0%	100.0%	100.0%	22,118	99.4%	100.0%	99.4%
Grant County					5,972	99.0%	100.0%	99.0%
Hennepin County	1,234,251	100.0%	100.0%	100.0%	31,587	99.8%	100.0%	99.8%
Houston County	7,834	100.0%	100.0%	100.0%	10,766	84.0%	99.5%	83.6%
Hubbard County	3,429	100.0%	100.0%	100.0%	18,062	97.7%	100.0%	97.7%
Isanti County	14,717	99.1%	100.0%	99.1%	25,874	71.2%	100.0%	71.2%

	Urban Areas				Rural Areas			
County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both
Itasca County	9,233	100.0%	100.0%	100.0%	35,897	93.0%	100.0%	93.0%
Jackson County	2,745	100.0%	100.0%	100.0%	7,101	100.0%	100.0%	100.0%
Kanabec County	3,351	96.8%	100.0%	96.8%	12,983	54.5%	100.0%	54.5%
Kandiyohi County	23,590	100.0%	100.0%	100.0%	19,604	100.0%	100.0%	100.0%
Kittson County					4,298	71.8%	100.0%	71.8%
Koochiching County	6,379	99.1%	100.0%	99.1%	5,850	64.0%	100.0%	64.0%
Lac qui Parle County					6,623	99.4%	100.0%	99.4%
Lake County	3,522	100.0%	100.0%	100.0%	7,119	87.7%	99.6%	87.5%
Lake of the Woods County					3,740	60.7%	99.4%	60.7%
Le Sueur County	10,583	99.9%	100.0%	99.9%	18,288	99.6%	100.0%	99.6%
Lincoln County					5,639	100.0%	100.0%	100.0%
Lyon County	12,829	100.0%	100.0%	100.0%	12,645	100.0%	100.0%	100.0%
Mahnomen County					5,527	92.8%	100.0%	92.8%
Marshall County					9,336	81.1%	100.0%	81.1%
Martin County	8,763	100.0%	100.0%	100.0%	10,920	98.9%	100.0%	98.9%
McLeod County	18,996	96.9%	100.0%	96.9%	16,897	100.0%	100.0%	100.0%
Meeker County	7,848	100.0%	100.0%	100.0%	15,374	94.7%	100.0%	94.7%
Mille Lacs County	7,454	99.4%	100.0%	99.4%	18,821	68.0%	100.0%	68.0%
Morrison County	8,853	99.4%	100.0%	99.4%	24,531	88.4%	100.0%	88.4%
Mower County	25,277	100.0%	100.0%	100.0%	14,784	99.8%	100.0%	99.8%
Murray County					8,194	100.0%	100.0%	100.0%
Nicollet County	24,434	96.1%	100.0%	96.1%	9,840	93.2%	100.0%	93.2%
Nobles County	12,281	100.0%	100.0%	100.0%	9,348	100.0%	100.0%	100.0%
Norman County					6,375	97.6%	100.0%	97.6%
Olmsted County	127,419	100.0%	100.0%	100.0%	30,861	99.6%	100.0%	99.6%
Otter Tail County	15,213	100.0%	100.0%	100.0%	43,533	98.2%	100.0%	98.2%
Pennington County	8,835	100.0%	100.0%	100.0%	5,284	96.6%	100.0%	96.6%
Pine County	3,091	96.7%	100.0%	96.7%	26,487	64.1%	100.0%	64.1%
Pipestone County	3,706	100.0%	100.0%	100.0%	5,417	100.0%	100.0%	100.0%
Polk County	15,820	99.9%	100.0%	99.9%	15,544	99.0%	100.0%	99.0%
Pope County					11,247	99.5%	100.0%	99.5%

	Urban Areas				Rural Areas			
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Ramsey County	549,150	99.9%	100.0%	99.9%	1,171	99.5%	100.0%	99.5%
Red Lake County					4,052	100.0%	100.0%	100.0%
Redwood County	4,260	100.0%	100.0%	100.0%	10,910	100.0%	100.0%	100.0%
Renville County					14,548	100.0%	100.0%	100.0%
Rice County	48,679	98.6%	100.0%	98.6%	18,284	100.0%	100.0%	100.0%
Rock County	4,224	100.0%	100.0%	100.0%	5,091	100.0%	100.0%	100.0%
Roseau County	2,424	100.0%	100.0%	100.0%	12,740	74.9%	100.0%	74.9%
Scott County	121,055	99.7%	100.0%	99.7%	27,940	97.6%	100.0%	97.6%
Sherburne County	53,225	99.6%	100.0%	99.6%	44,006	87.4%	100.0%	87.4%
Sibley County					14,865	99.4%	100.0%	99.4%
St. Louis County	124,539	99.5%	100.0%	99.5%	74,531	71.6%	99.9%	71.5%
Stearns County	98,473	99.8%	100.0%	99.8%	62,600	90.7%	100.0%	90.7%
Steele County	25,120	100.0%	100.0%	100.0%	11,529	100.0%	100.0%	100.0%
Stevens County	4,995	99.7%	100.0%	99.7%	4,810	98.3%	100.0%	98.3%
Swift County	2,818	100.0%	100.0%	100.0%	6,448	99.8%	100.0%	99.8%
Todd County	4,876	100.0%	100.0%	100.0%	19,785	74.9%	100.0%	74.9%
Traverse County					3,259	97.6%	100.0%	97.6%
Wabasha County	7,501	100.0%	100.0%	100.0%	14,126	99.1%	99.3%	98.3%
Wadena County	4,363	100.0%	100.0%	100.0%	9,319	95.8%	100.0%	95.8%
Waseca County	9,205	100.0%	100.0%	100.0%	9,407	100.0%	100.0%	100.0%
Washington County	218,979	98.8%	100.0%	98.8%	43,440	95.8%	100.0%	95.8%
Watonwan County	4,276	100.0%	100.0%	100.0%	6,621	99.4%	100.0%	99.4%
Wilkin County	2,899	100.0%	100.0%	100.0%	3,308	99.3%	100.0%	99.3%
Winona County	33,069	100.0%	100.0%	100.0%	17,415	99.7%	98.9%	98.6%
Wright County	90,431	99.8%	100.0%	99.8%	47,939	89.4%	100.0%	89.4%
Yellow Medicine County	1,596	100.0%	100.0%	100.0%	8,113	100.0%	100.0%	100.0%
Mississippi	**1,461,841**	**97.8%**	**100.0%**	**97.8%**	**1,512,846**	**63.4%**	**100.0%**	**63.4%**
Adams County	19,609	99.4%	100.0%	99.4%	11,084	59.2%	100.0%	59.2%
Alcorn County	12,430	98.6%	100.0%	98.6%	24,523	67.0%	100.0%	67.0%
Amite County					12,297	74.7%	99.9%	74.7%
Attala County	5,818	98.0%	100.0%	98.0%	12,356	29.8%	100.0%	29.8%

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Benton County					8,259	44.1%	100.0%	44.1%
Bolivar County	13,099	96.5%	100.0%	96.5%	17,529	62.0%	100.0%	62.0%
Calhoun County					14,361	71.8%	100.0%	71.8%
Carroll County					9,947	27.6%	100.0%	27.6%
Chickasaw County	2,525	99.5%	100.0%	99.5%	14,578	48.3%	100.0%	48.3%
Choctaw County					8,210	56.6%	100.0%	56.6%
Claiborne County					8,988	41.4%	100.0%	41.4%
Clarke County					15,541	44.7%	99.7%	44.7%
Clay County	8,329	98.3%	100.0%	98.3%	10,987	39.2%	100.0%	39.2%
Coahoma County	15,123	97.4%	100.0%	97.4%	7,001	27.1%	100.0%	27.1%
Copiah County	9,143	65.4%	100.0%	65.4%	18,922	27.8%	99.9%	27.8%
Covington County					18,636	4.5%	100.0%	4.5%
DeSoto County	144,044	98.3%	100.0%	98.3%	40,893	90.3%	100.0%	90.3%
Forrest County	52,063	99.2%	100.0%	99.2%	22,834	73.3%	100.0%	73.3%
Franklin County					7,713	25.3%	100.0%	25.3%
George County	2,747	99.5%	100.0%	99.5%	21,752	73.1%	100.0%	73.1%
Greene County					13,586	22.6%	100.0%	22.6%
Grenada County	9,840	99.6%	100.0%	99.6%	10,918	62.9%	100.0%	62.9%
Hancock County	26,666	100.0%	100.0%	100.0%	20,962	98.7%	100.0%	98.7%
Harrison County	158,941	97.9%	100.0%	97.9%	49,139	96.6%	100.0%	96.6%
Hinds County	194,815	97.9%	100.0%	97.9%	37,025	59.5%	100.0%	59.5%
Holmes County	2,076	96.5%	100.0%	96.5%	14,934	57.3%	99.9%	57.3%
Humphreys County	3,942	77.2%	100.0%	77.2%	4,122	37.2%	100.0%	37.2%
Issaquena County					1,327	1.7%	100.0%	1.7%
Itawamba County	3,188	95.9%	100.0%	95.9%	20,202	60.0%	100.0%	60.0%
Jackson County	104,314	99.1%	100.0%	99.1%	39,302	94.5%	100.0%	94.5%
Jasper County					16,383	60.5%	100.0%	60.5%
Jefferson County					6,990	3.1%	100.0%	3.1%
Jefferson Davis County					11,128	65.4%	100.0%	65.4%
Jones County	25,636	94.2%	100.0%	94.2%	42,462	69.2%	100.0%	69.2%
Kemper County					9,742	13.7%	99.9%	13.7%

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Lafayette County	27,269	93.9%	100.0%	93.9%	26,750	71.0%	100.0%	71.0%
Lamar County	29,925	99.9%	100.0%	99.9%	33,417	69.4%	100.0%	69.4%
Lauderdale County	37,297	94.6%	100.0%	94.6%	36,828	78.9%	100.0%	78.9%
Lawrence County					12,586	6.1%	100.0%	6.1%
Leake County	4,049	90.7%	100.0%	90.7%	18,737	35.7%	100.0%	35.7%
Lee County	46,030	97.9%	100.0%	97.9%	39,405	78.1%	100.0%	78.1%
Leflore County	22,966	93.2%	100.0%	93.2%	5,217	29.0%	100.0%	29.0%
Lincoln County	10,327	99.4%	100.0%	99.4%	23,826	60.0%	100.0%	60.0%
Lowndes County	33,564	99.2%	100.0%	99.2%	25,031	77.4%	100.0%	77.4%
Madison County	73,201	98.8%	100.0%	98.8%	33,070	90.6%	100.0%	90.6%
Marion County	6,424	100.0%	100.0%	100.0%	18,149	30.8%	100.0%	30.8%
Marshall County	5,667	82.8%	100.0%	82.8%	29,627	64.8%	100.0%	64.8%
Monroe County	10,432	99.5%	100.0%	99.5%	24,820	60.1%	100.0%	60.1%
Montgomery County	3,701	99.9%	100.0%	99.9%	6,074	65.9%	100.0%	65.9%
Neshoba County	7,600	99.9%	100.0%	99.9%	21,518	52.0%	100.0%	52.0%
Newton County	2,712	97.1%	100.0%	97.1%	18,306	64.9%	100.0%	64.9%
Noxubee County	2,702	90.3%	100.0%	90.3%	7,715	35.7%	99.9%	35.7%
Oktibbeha County	30,700	98.4%	100.0%	98.4%	18,887	67.1%	100.0%	67.1%
Panola County	7,018	98.2%	100.0%	98.2%	27,174	69.5%	100.0%	69.5%
Pearl River County	16,605	100.0%	100.0%	100.0%	38,929	91.4%	100.0%	91.4%
Perry County					11,973	22.5%	99.2%	22.5%
Pike County	15,784	100.0%	100.0%	100.0%	23,504	64.1%	100.0%	64.1%
Pontotoc County	4,982	99.4%	100.0%	99.4%	27,192	48.5%	100.0%	48.5%
Prentiss County	5,848	99.1%	100.0%	99.1%	19,278	58.4%	100.0%	58.4%
Quitman County	2,886	98.4%	100.0%	98.4%	3,906	34.9%	100.0%	34.9%
Rankin County	100,004	98.4%	100.0%	98.4%	55,267	90.3%	100.0%	90.3%
Scott County	7,643	98.6%	100.0%	98.6%	20,481	42.0%	100.0%	42.0%
Sharkey County					4,321	55.5%	100.0%	55.5%
Simpson County	3,624	94.9%	100.0%	94.9%	23,034	52.3%	100.0%	52.3%
Smith County					15,916	45.1%	99.9%	45.1%
Stone County	3,740	100.0%	100.0%	100.0%	14,596	86.5%	100.0%	86.5%

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Sunflower County	14,424	95.7%	100.0%	95.7%	10,686	46.8%	100.0%	46.8%
Tallahatchie County	2,424	98.6%	100.0%	98.6%	11,385	45.6%	100.0%	45.6%
Tate County	6,347	99.5%	100.0%	99.5%	21,974	72.0%	100.0%	72.0%
Tippah County	3,539	99.2%	100.0%	99.2%	18,476	81.8%	100.0%	81.8%
Tishomingo County					19,383	63.6%	100.0%	63.6%
Tunica County	3,446	94.0%	100.0%	94.0%	6,186	53.6%	100.0%	53.6%
Union County	6,909	96.1%	100.0%	96.1%	21,906	57.5%	100.0%	57.5%
Walthall County					14,286	26.6%	100.0%	26.6%
Warren County	27,205	99.5%	100.0%	99.5%	18,176	94.3%	99.5%	94.3%
Washington County	35,247	97.2%	100.0%	97.2%	8,662	61.1%	100.0%	61.1%
Wayne County	4,037	99.9%	100.0%	99.9%	16,146	53.2%	99.3%	53.0%
Webster County					9,689	49.4%	100.0%	49.4%
Wilkinson County					8,630	58.1%	100.0%	58.1%
Winston County	4,093	99.9%	100.0%	99.9%	13,862	59.5%	100.0%	59.5%
Yalobusha County	2,420	98.1%	100.0%	98.1%	9,688	57.4%	100.0%	57.4%
Yazoo County	14,702	99.9%	100.0%	99.9%	13,544	43.5%	99.7%	43.5%
Missouri	**4,292,404**	**99.2%**	**100.0%**	**99.2%**	**1,843,625**	**79.0%**	**99.9%**	**78.9%**
Adair County	15,652	100.0%	100.0%	100.0%	9,691	92.4%	99.0%	91.4%
Andrew County	6,676	100.0%	100.0%	100.0%	11,035	80.9%	100.0%	80.9%
Atchison County					5,143	79.0%	100.0%	79.0%
Audrain County	14,424	100.0%	100.0%	100.0%	10,964	89.3%	100.0%	89.3%
Barry County	9,485	100.0%	100.0%	100.0%	26,304	97.1%	100.0%	97.1%
Barton County	3,358	93.1%	100.0%	93.1%	8,396	66.4%	100.0%	66.4%
Bates County	3,362	99.0%	100.0%	99.0%	12,810	57.1%	100.0%	57.1%
Benton County	2,579	0.0%	100.0%	0.0%	16,862	36.0%	99.9%	35.9%
Bollinger County					12,133	1.6%	100.0%	1.6%
Boone County	140,506	97.3%	100.0%	97.3%	39,495	75.5%	100.0%	75.5%
Buchanan County	75,152	93.9%	100.0%	93.9%	12,212	59.5%	100.0%	59.5%
Butler County	20,303	99.3%	100.0%	99.3%	22,175	67.0%	100.0%	67.0%
Caldwell County					9,020	37.6%	100.0%	37.6%
Callaway County	16,720	100.0%	100.0%	100.0%	28,023	100.0%	100.0%	100.0%

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Camden County	11,724	100.0%	100.0%	100.0%	34,581	88.4%	100.0%	88.4%
Cape Girardeau County	53,743	99.8%	100.0%	99.8%	25,128	55.7%	100.0%	55.7%
Carroll County	2,973	97.2%	100.0%	97.2%	5,706	48.1%	100.0%	48.1%
Carter County					5,982	18.2%	100.0%	18.2%
Cass County	69,522	99.4%	100.0%	99.4%	35,410	82.4%	100.0%	82.4%
Cedar County	3,422	99.9%	100.0%	99.9%	10,926	66.9%	100.0%	66.9%
Chariton County					7,426	60.9%	100.0%	60.9%
Christian County	46,104	100.0%	100.0%	100.0%	42,475	100.0%	100.0%	100.0%
Clark County					6,797	84.6%	100.0%	84.6%
Clay County	221,481	99.9%	100.0%	99.9%	28,453	86.8%	100.0%	86.8%
Clinton County	4,775	100.0%	100.0%	100.0%	15,612	77.2%	100.0%	77.2%
Cole County	54,158	100.0%	100.0%	100.0%	22,587	100.0%	100.0%	100.0%
Cooper County	8,163	100.0%	100.0%	100.0%	9,546	100.0%	100.0%	100.0%
Crawford County	6,499	99.8%	100.0%	99.8%	17,421	98.0%	99.9%	97.9%
Dade County					7,561	63.1%	100.0%	63.1%
Dallas County	2,853	100.0%	100.0%	100.0%	14,025	100.0%	99.9%	99.9%
Daviess County					8,278	70.8%	100.0%	70.8%
DeKalb County	4,614	27.9%	100.0%	27.9%	7,933	80.3%	100.0%	80.3%
Dent County	4,788	100.0%	100.0%	100.0%	10,785	54.1%	98.0%	53.5%
Douglas County	2,572	100.0%	100.0%	100.0%	10,613	100.0%	98.2%	98.2%
Dunklin County	14,161	100.0%	100.0%	100.0%	14,970	99.6%	100.0%	99.6%
Franklin County	45,519	98.8%	100.0%	98.8%	58,448	92.3%	100.0%	92.3%
Gasconade County	2,807	100.0%	100.0%	100.0%	11,899	99.3%	100.0%	99.3%
Gentry County					6,571	95.8%	100.0%	95.8%
Greene County	247,867	100.0%	100.0%	100.0%	45,217	100.0%	100.0%	100.0%
Grundy County	5,078	99.7%	100.0%	99.7%	4,772	83.4%	100.0%	83.4%
Harrison County	2,221	100.0%	100.0%	100.0%	6,131	56.7%	100.0%	56.7%
Henry County	10,686	83.8%	100.0%	83.8%	11,138	19.0%	100.0%	19.0%
Hickory County					9,544	20.7%	100.0%	20.7%
Holt County					4,403	57.7%	100.0%	57.7%
Howard County	3,368	46.0%	100.0%	46.0%	6,633	1.1%	100.0%	1.1%

	Urban Areas				Rural Areas			
County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both
Howell County	11,022	100.0%	100.0%	100.0%	29,095	86.5%	99.7%	86.2%
Iron County	2,582	100.0%	100.0%	100.0%	7,543	50.6%	98.4%	50.1%
Jackson County	673,736	99.8%	100.0%	99.8%	29,272	70.1%	100.0%	70.1%
Jasper County	90,454	100.0%	100.0%	100.0%	30,858	92.7%	100.0%	92.7%
Jefferson County	155,654	99.5%	100.0%	99.5%	69,427	89.7%	100.0%	89.7%
Johnson County	25,648	99.9%	100.0%	99.9%	28,408	85.1%	100.0%	85.1%
Knox County					3,959	65.1%	99.5%	64.8%
Laclede County	13,908	100.0%	100.0%	100.0%	21,815	100.0%	100.0%	100.0%
Lafayette County	13,820	73.5%	100.0%	73.5%	18,888	79.3%	100.0%	79.3%
Lawrence County	15,525	100.0%	100.0%	100.0%	22,830	98.4%	100.0%	98.4%
Lewis County					9,776	89.4%	99.8%	89.2%
Lincoln County	13,923	100.0%	100.0%	100.0%	45,087	90.0%	99.6%	89.6%
Linn County	3,836	94.7%	100.0%	94.7%	8,084	85.9%	99.5%	85.5%
Livingston County	9,397	85.2%	100.0%	85.2%	5,826	60.2%	100.0%	60.2%
Macon County	4,564	100.0%	100.0%	100.0%	10,553	92.0%	99.1%	91.0%
Madison County	4,041	100.0%	100.0%	100.0%	8,047	27.2%	100.0%	27.2%
Maries County					8,697	99.6%	100.0%	99.6%
Marion County	21,334	100.0%	100.0%	100.0%	7,196	94.5%	100.0%	94.5%
McDonald County	3	0.0%	100.0%	0.0%	22,834	81.3%	100.0%	81.3%
Mercer County					3,617	69.4%	100.0%	69.4%
Miller County	5,060	100.0%	100.0%	100.0%	20,558	95.6%	100.0%	95.6%
Mississippi County	8,770	99.9%	100.0%	99.9%	4,410	77.7%	100.0%	77.7%
Moniteau County	7,472	100.0%	100.0%	100.0%	8,660	100.0%	100.0%	100.0%
Monroe County					8,644	71.5%	100.0%	71.5%
Montgomery County	2,196	100.0%	100.0%	100.0%	9,355	99.6%	100.0%	99.6%
Morgan County					20,627	98.5%	99.9%	98.4%
New Madrid County	6,918	99.9%	100.0%	99.9%	10,158	91.8%	100.0%	91.8%
Newton County	20,463	100.0%	100.0%	100.0%	37,773	100.0%	100.0%	100.0%
Nodaway County	11,962	87.5%	100.0%	87.5%	10,130	95.5%	100.0%	95.5%
Oregon County	2,061	62.7%	100.0%	62.7%	8,468	10.6%	98.1%	9.7%
Osage County					13,615	100.0%	100.0%	100.0%

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Ozark County					9,174	3.7%	99.9%	3.7%
Pemiscot County	7,405	95.3%	100.0%	95.3%	8,400	86.6%	100.0%	86.6%
Perry County	8,336	99.2%	100.0%	99.2%	10,800	18.0%	100.0%	18.0%
Pettis County	26,073	98.5%	100.0%	98.5%	16,266	38.2%	100.0%	38.2%
Phelps County	23,666	100.0%	100.0%	100.0%	20,907	65.7%	100.0%	65.7%
Pike County	8,154	91.6%	100.0%	91.6%	10,148	54.9%	100.0%	54.9%
Platte County	84,576	100.0%	100.0%	100.0%	19,831	76.3%	100.0%	76.3%
Polk County	9,634	100.0%	100.0%	100.0%	22,515	90.8%	100.0%	90.8%
Pulaski County	28,760	98.0%	100.0%	98.0%	23,846	90.1%	100.0%	90.1%
Putnam County					4,696	95.1%	100.0%	95.1%
Ralls County	406	100.0%	100.0%	100.0%	9,900	98.3%	100.0%	98.3%
Randolph County	13,138	100.0%	100.0%	100.0%	11,610	45.0%	99.8%	44.9%
Ray County	5,691	99.1%	100.0%	99.1%	17,326	54.0%	100.0%	54.0%
Reynolds County					6,270	52.2%	97.1%	51.6%
Ripley County					13,288	24.7%	98.9%	24.7%
Saline County	11,696	100.0%	100.0%	100.0%	11,065	61.1%	100.0%	61.1%
Schuyler County					4,660	92.0%	100.0%	92.0%
Scotland County					4,902	92.3%	99.6%	92.3%
Scott County	22,292	100.0%	100.0%	100.0%	15,988	80.8%	100.0%	80.8%
Shannon County					8,166	15.1%	97.7%	15.0%
Shelby County					5,930	92.8%	98.1%	91.7%
St. Charles County	372,041	99.8%	100.0%	99.8%	29,981	86.2%	100.0%	86.2%
St. Clair County					9,397	11.8%	100.0%	11.8%
St. Francois County	39,967	99.9%	100.0%	99.9%	27,246	73.8%	100.0%	73.8%
St. Louis County	982,615	99.9%	100.0%	99.9%	11,590	98.2%	100.0%	98.2%
St. Louis city	300,575	100.0%	100.0%	100.0%	1	100.0%	100.0%	100.0%
Ste. Genevieve County	4,224	99.7%	100.0%	99.7%	13,670	45.9%	100.0%	45.9%
Stoddard County	8,665	99.9%	100.0%	99.9%	20,360	85.2%	100.0%	85.2%
Stone County	3,452	100.0%	100.0%	100.0%	28,500	100.0%	100.0%	100.0%
Sullivan County					6,089	78.6%	100.0%	78.6%
Taney County	30,223	100.0%	100.0%	100.0%	25,705	91.9%	100.0%	91.9%

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Texas County	205	100.0%	100.0%	100.0%	25,193	76.2%	99.8%	76.0%
Vernon County	8,037	100.0%	100.0%	100.0%	12,526	60.5%	100.0%	60.5%
Warren County	12,386	97.9%	100.0%	97.9%	23,263	75.1%	100.0%	75.1%
Washington County	4,765	76.6%	100.0%	76.6%	19,965	44.8%	99.6%	44.5%
Wayne County					12,873	43.3%	100.0%	43.3%
Webster County	9,703	100.0%	100.0%	100.0%	29,887	100.0%	100.0%	100.0%
Worth County					2,013	59.3%	100.0%	59.3%
Wright County	4,055	100.0%	100.0%	100.0%	14,234	100.0%	99.3%	99.3%
Montana	**574,138**	**98.0%**	**100.0%**	**98.0%**	**494,622**	**73.6%**	**97.9%**	**72.5%**
Beaverhead County	4,493	99.2%	100.0%	99.2%	4,960	69.6%	94.7%	64.8%
Big Horn County	3,456	9.1%	100.0%	9.1%	9,863	57.9%	97.2%	57.6%
Blaine County					6,681	98.3%	84.0%	82.8%
Broadwater County					6,237	59.5%	99.8%	59.4%
Carbon County					10,725	48.1%	100.0%	48.1%
Carter County					1,252	52.6%	40.8%	16.2%
Cascade County	64,821	100.0%	100.0%	100.0%	16,545	98.9%	100.0%	98.9%
Chouteau County					5,635	98.9%	99.0%	97.9%
Custer County	9,051	100.0%	100.0%	100.0%	2,351	60.9%	94.6%	59.7%
Daniels County					1,690	98.3%	77.3%	76.2%
Dawson County	5,798	100.0%	100.0%	100.0%	2,815	64.6%	95.3%	60.5%
Deer Lodge County	6,146	99.3%	100.0%	99.3%	2,994	37.7%	99.3%	37.0%
Fallon County					2,846	76.5%	99.3%	76.4%
Fergus County	6,019	100.0%	100.0%	100.0%	5,031	72.0%	91.1%	63.1%
Flathead County	47,204	99.9%	100.0%	99.9%	56,599	72.0%	99.6%	72.0%
Gallatin County	67,070	100.0%	100.0%	100.0%	47,364	97.6%	99.7%	97.5%
Garfield County					1,258	42.8%	77.5%	34.8%
Glacier County	7,467	85.5%	100.0%	85.5%	6,286	50.0%	99.4%	49.8%
Golden Valley County					821	90.9%	100.0%	90.9%
Granite County					3,379	30.4%	96.8%	28.7%
Hill County	9,644	100.0%	100.0%	100.0%	6,840	93.1%	99.7%	92.8%
Jefferson County					12,219	66.7%	100.0%	66.6%

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Judith Basin County					2,006	86.3%	96.7%	83.5%
Lake County	4,867	99.4%	100.0%	99.4%	25,591	65.2%	100.0%	65.2%
Lewis and Clark County	46,551	100.0%	100.0%	100.0%	22,881	97.5%	99.1%	97.0%
Liberty County					2,337	98.8%	88.6%	87.4%
Lincoln County	3,903	97.1%	100.0%	97.1%	16,077	68.4%	94.2%	67.0%
Madison County					8,600	69.3%	99.5%	69.2%
McCone County					1,664	49.5%	92.8%	48.0%
Meagher County					1,862	96.6%	95.5%	92.7%
Mineral County					4,396	35.9%	98.6%	35.9%
Missoula County	89,306	99.7%	100.0%	99.7%	30,291	73.9%	99.6%	73.8%
Musselshell County					4,633	58.9%	99.9%	58.8%
Park County	8,329	97.9%	100.0%	97.9%	8,277	43.3%	98.3%	42.9%
Petroleum County					487	40.0%	92.0%	39.8%
Phillips County					3,954	82.8%	93.1%	81.0%
Pondera County	2,377	0.1%	100.0%	0.1%	3,534	63.3%	100.0%	63.3%
Powder River County					1,682	56.7%	92.7%	55.8%
Powell County	3,185	99.8%	100.0%	99.8%	3,705	15.4%	96.7%	15.2%
Prairie County					1,077	63.4%	97.9%	63.1%
Ravalli County	6,395	99.4%	100.0%	99.4%	37,407	88.3%	98.4%	87.9%
Richland County	4,899	100.0%	100.0%	100.0%	5,904	61.1%	96.4%	60.1%
Roosevelt County	6,088	88.7%	100.0%	88.7%	4,916	59.4%	97.9%	58.4%
Rosebud County					8,937	64.3%	98.7%	64.3%
Sanders County					12,113	33.0%	94.0%	30.2%
Sheridan County					3,309	81.8%	86.9%	70.9%
Silver Bow County	30,259	99.6%	100.0%	99.6%	4,656	71.8%	99.8%	71.6%
Stillwater County					9,642	72.7%	97.6%	71.2%
Sweet Grass County					3,737	91.8%	99.7%	91.8%
Teton County					6,147	56.5%	99.3%	56.5%
Toole County	2,773	15.5%	100.0%	15.5%	1,963	84.8%	100.0%	84.8%
Treasure County					696	68.4%	98.9%	67.2%

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Valley County	3,177	99.6%	100.0%	99.6%	4,219	67.3%	90.5%	59.6%
Wheatland County					2,126	97.1%	100.0%	97.1%
Wibaux County					969	8.3%	64.7%	7.6%
Yellowstone County	130,860	99.5%	100.0%	99.5%	30,436	68.0%	100.0%	68.0%
Nebraska	**1,412,115**	**99.8%**	**100.0%**	**99.8%**	**522,234**	**87.0%**	**100.0%**	**86.9%**
Adams County	23,951	100.0%	100.0%	100.0%	7,412	74.3%	100.0%	74.3%
Antelope County					6,298	80.1%	100.0%	80.1%
Arthur County					463	75.6%	100.0%	75.6%
Banner County					744	98.8%	100.0%	98.8%
Blaine County					465	48.4%	100.0%	48.4%
Boone County					5,192	63.1%	100.0%	63.1%
Box Butte County	8,000	100.0%	100.0%	100.0%	2,783	94.1%	100.0%	94.1%
Boyd County					1,919	99.4%	100.0%	99.4%
Brown County					2,955	26.8%	99.2%	26.8%
Buffalo County	31,819	99.9%	100.0%	99.9%	17,840	90.4%	100.0%	90.4%
Burt County					6,459	98.1%	100.0%	98.1%
Butler County	2,576	100.0%	100.0%	100.0%	5,440	100.0%	100.0%	100.0%
Cass County	6,925	100.0%	100.0%	100.0%	19,321	100.0%	100.0%	100.0%
Cedar County					8,402	65.5%	100.0%	65.5%
Chase County					3,924	100.0%	100.0%	100.0%
Cherry County	2,413	64.6%	100.0%	64.6%	3,276	41.9%	99.2%	41.7%
Cheyenne County	5,240	100.0%	100.0%	100.0%	3,670	88.4%	100.0%	88.4%
Clay County					6,203	74.3%	100.0%	74.3%
Colfax County	5,967	100.0%	100.0%	100.0%	4,742	100.0%	100.0%	100.0%
Cuming County	2,830	100.0%	100.0%	100.0%	6,016	83.8%	100.0%	83.8%
Custer County	3,368	95.9%	100.0%	95.9%	7,409	53.0%	100.0%	53.0%
Dakota County	15,582	94.1%	100.0%	94.1%	4,444	79.3%	100.0%	79.3%
Dawes County	5,149	86.8%	100.0%	86.8%	3,440	67.3%	100.0%	67.3%
Dawson County	17,170	100.0%	100.0%	100.0%	6,425	64.0%	100.0%	64.0%
Deuel County					1,794	94.1%	100.0%	94.1%
Dixon County					5,636	92.4%	100.0%	92.4%

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Dodge County	27,079	100.0%	100.0%	100.0%	9,486	100.0%	100.0%	100.0%
Douglas County	552,041	100.0%	100.0%	100.0%	19,275	100.0%	100.0%	100.0%
Dundy County					1,693	96.1%	100.0%	96.1%
Fillmore County					5,462	84.1%	100.0%	84.1%
Franklin County					2,979	72.0%	100.0%	72.0%
Frontier County					2,627	76.8%	100.0%	76.8%
Furnas County					4,676	78.7%	100.0%	78.7%
Gage County	11,379	100.0%	100.0%	100.0%	10,134	90.1%	100.0%	90.1%
Garden County					1,837	92.5%	100.0%	92.5%
Garfield County					1,969	90.2%	100.0%	90.2%
Gosper County					1,990	52.5%	100.0%	52.5%
Grant County					623	69.3%	100.0%	69.3%
Greeley County					2,356	35.7%	100.0%	35.7%
Hall County	51,007	100.0%	100.0%	100.0%	10,346	98.9%	100.0%	98.9%
Hamilton County	4,438	100.0%	100.0%	100.0%	4,883	98.9%	100.0%	98.9%
Harlan County					3,380	75.6%	100.0%	75.6%
Hayes County					916	87.7%	100.0%	87.7%
Hitchcock County					2,762	97.4%	100.0%	97.4%
Holt County	3,398	91.2%	100.0%	91.2%	6,669	75.4%	100.0%	75.4%
Hooker County					682	94.1%	100.0%	94.1%
Howard County					6,445	81.2%	100.0%	81.2%
Jefferson County	2,378	100.0%	100.0%	100.0%	4,668	51.8%	99.9%	51.8%
Johnson County					5,071	100.0%	100.0%	100.0%
Kearney County	2,891	99.9%	100.0%	99.9%	3,604	81.8%	100.0%	81.8%
Keith County	4,255	100.0%	100.0%	100.0%	3,779	88.5%	100.0%	88.5%
Keya Paha County					806	96.5%	98.4%	94.9%
Kimball County					3,632	97.1%	100.0%	97.1%
Knox County					8,332	51.9%	99.0%	51.5%
Lancaster County	284,767	100.0%	100.0%	100.0%	34,309	100.0%	100.0%	100.0%
Lincoln County	24,210	100.0%	100.0%	100.0%	10,704	81.5%	100.0%	81.4%
Logan County					748	23.7%	100.0%	23.7%

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Loup County					663	84.6%	100.0%	84.6%
Madison County	24,922	99.0%	100.0%	99.0%	10,177	91.0%	100.0%	91.0%
McPherson County					494	51.8%	100.0%	51.8%
Merrick County	2,994	98.9%	100.0%	98.9%	4,761	90.6%	100.0%	90.6%
Morrill County					4,642	98.2%	100.0%	98.2%
Nance County					3,519	80.7%	100.0%	80.7%
Nemaha County	3,284	100.0%	100.0%	100.0%	3,688	100.0%	100.0%	100.0%
Nuckolls County					4,148	74.1%	100.0%	74.1%
Otoe County	7,073	100.0%	100.0%	100.0%	8,935	100.0%	100.0%	100.0%
Pawnee County					2,613	89.0%	100.0%	89.0%
Perkins County					2,891	95.9%	100.0%	95.9%
Phelps County	4,707	99.7%	100.0%	99.7%	4,327	85.9%	100.0%	85.9%
Pierce County					7,148	81.3%	100.0%	81.3%
Platte County	22,522	100.0%	100.0%	100.0%	10,948	95.1%	100.0%	95.1%
Polk County					5,213	99.4%	100.0%	99.4%
Red Willow County	7,306	100.0%	100.0%	100.0%	3,418	96.5%	100.0%	96.5%
Richardson County	3,789	100.0%	100.0%	100.0%	4,076	99.2%	100.0%	99.2%
Rock County					1,357	73.8%	100.0%	73.8%
Saline County	6,687	100.0%	100.0%	100.0%	7,537	99.0%	100.0%	99.0%
Sarpy County	170,575	100.0%	100.0%	100.0%	16,604	100.0%	100.0%	100.0%
Saunders County	7,023	100.0%	100.0%	100.0%	14,555	100.0%	100.0%	100.0%
Scotts Bluff County	24,526	100.0%	100.0%	100.0%	11,092	100.0%	100.0%	100.0%
Seward County	6,582	100.0%	100.0%	100.0%	10,702	100.0%	100.0%	100.0%
Sheridan County					5,246	52.0%	99.7%	51.8%
Sherman County					3,001	74.3%	100.0%	74.3%
Sioux County					1,166	100.0%	100.0%	100.0%
Stanton County	1,408	94.7%	100.0%	94.7%	4,512	90.1%	100.0%	90.1%
Thayer County					5,003	65.0%	100.0%	65.0%
Thomas County					722	80.2%	100.0%	80.2%
Thurston County					7,224	58.7%	100.0%	58.7%
Valley County					4,158	78.1%	100.0%	78.1%

	Urban Areas				Rural Areas			
County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both
Washington County	7,851	100.0%	100.0%	100.0%	12,878	100.0%	100.0%	100.0%
Wayne County	4,668	99.9%	100.0%	99.9%	4,717	46.9%	100.0%	46.9%
Webster County					3,487	56.1%	100.0%	56.1%
Wheeler County					783	77.9%	100.0%	77.9%
York County	7,365	100.0%	100.0%	100.0%	6,314	98.2%	100.0%	98.2%
Nevada	**2,854,509**	**99.6%**	**100.0%**	**99.6%**	**225,313**	**66.1%**	**98.1%**	**66.0%**
Carson City	52,908	99.8%	100.0%	99.8%	3,008	93.5%	100.0%	93.5%
Churchill County	15,605	99.8%	100.0%	99.8%	9,304	70.7%	98.3%	70.7%
Clark County	2,201,983	99.9%	100.0%	99.9%	64,720	80.9%	99.6%	80.9%
Douglas County	32,712	99.9%	100.0%	99.9%	16,193	89.7%	99.9%	89.7%
Elko County	29,662	98.0%	100.0%	98.0%	22,798	53.0%	96.8%	53.0%
Esmeralda County					873	23.3%	98.2%	22.8%
Eureka County					2,029	6.2%	98.1%	6.2%
Humboldt County	9,850	100.0%	100.0%	100.0%	6,981	77.7%	97.5%	77.6%
Lander County	3,360	0.2%	100.0%	0.2%	2,172	0.3%	92.0%	0.2%
Lincoln County					5,183	87.0%	95.9%	84.5%
Lyon County	33,374	97.8%	100.0%	97.8%	24,135	60.8%	99.8%	60.8%
Mineral County	3,118	99.6%	100.0%	99.6%	1,387	8.5%	93.5%	8.4%
Nye County	28,326	100.0%	100.0%	100.0%	18,196	63.9%	96.2%	63.9%
Pershing County					6,725	17.7%	98.1%	17.5%
Storey County	287	100.0%	100.0%	100.0%	3,834	66.8%	100.0%	66.8%
Washoe County	438,855	99.8%	100.0%	99.8%	32,664	61.9%	95.2%	61.9%
White Pine County	4,469	1.8%	100.0%	1.8%	5,111	0.2%	98.7%	0.2%
New Hampshire	**818,191**	**98.6%**	**100.0%**	**98.6%**	**541,515**	**94.0%**	**99.9%**	**94.0%**
Belknap County	20,480	97.1%	100.0%	97.1%	40,823	97.4%	100.0%	97.4%
Carroll County	4,672	100.0%	100.0%	100.0%	44,238	97.5%	100.0%	97.5%
Cheshire County	26,110	99.2%	100.0%	99.2%	49,975	79.6%	100.0%	79.6%
Coos County	10,199	100.0%	100.0%	100.0%	21,364	84.0%	97.7%	82.5%
Grafton County	27,507	98.4%	100.0%	98.4%	62,378	92.0%	100.0%	92.0%
Hillsborough County	326,112	98.5%	100.0%	98.5%	90,910	96.8%	100.0%	96.8%
Merrimack County	67,672	97.6%	100.0%	97.6%	83,719	98.0%	100.0%	98.0%

	Urban Areas				Rural Areas			
County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both
Rockingham County	232,544	99.0%	99.9%	98.9%	77,224	98.9%	100.0%	98.9%
Strafford County	87,573	98.6%	99.9%	98.6%	43,060	97.9%	100.0%	97.9%
Sullivan County	15,322	97.4%	100.0%	97.4%	27,824	81.0%	100.0%	81.0%
New Jersey	**8,418,073**	**98.6%**	**100.0%**	**98.6%**	**464,112**	**97.8%**	**100.0%**	**97.8%**
Atlantic County	228,705	98.0%	99.9%	97.9%	34,965	97.5%	100.0%	97.5%
Bergen County	931,137	99.6%	100.0%	99.6%	1,065	97.7%	100.0%	97.7%
Burlington County	415,252	98.5%	100.0%	98.5%	30,097	97.8%	100.0%	97.8%
Camden County	498,528	98.8%	100.0%	98.8%	7,943	99.7%	100.0%	99.7%
Cape May County	76,151	98.9%	99.9%	98.7%	15,888	97.4%	99.9%	97.3%
Cumberland County	116,867	98.3%	100.0%	98.3%	32,660	91.7%	100.0%	91.7%
Essex County	798,841	98.6%	100.0%	98.6%	134	97.0%	100.0%	97.0%
Gloucester County	267,192	99.0%	100.0%	99.0%	24,444	98.8%	100.0%	98.8%
Hudson County	672,391	98.7%	100.0%	98.7%				
Hunterdon County	62,261	98.4%	100.0%	98.4%	62,110	99.6%	100.0%	99.6%
Mercer County	354,028	97.6%	100.0%	97.6%	13,402	99.2%	100.0%	99.2%
Middlesex County	818,850	96.7%	100.0%	96.7%	6,212	98.9%	100.0%	98.9%
Monmouth County	595,264	99.1%	100.0%	99.1%	23,531	97.6%	100.0%	97.6%
Morris County	457,843	96.9%	100.0%	96.9%	34,002	97.3%	100.0%	97.3%
Ocean County	588,376	98.8%	99.9%	98.6%	18,805	94.5%	100.0%	94.5%
Passaic County	489,418	99.4%	100.0%	99.4%	12,408	98.1%	100.0%	98.1%
Salem County	33,640	98.3%	100.0%	98.3%	28,745	96.4%	100.0%	96.4%
Somerset County	308,702	99.3%	100.0%	99.3%	20,232	99.0%	100.0%	99.0%
Sussex County	83,527	99.7%	100.0%	99.7%	56,961	99.6%	100.0%	99.6%
Union County	556,341	99.3%	100.0%	99.3%				
Warren County	64,759	99.3%	100.0%	99.3%	40,508	98.3%	100.0%	98.3%
New Mexico	**1,586,750**	**96.5%**	**100.0%**	**96.5%**	**509,391**	**58.0%**	**98.4%**	**57.4%**
Bernalillo County	646,680	99.9%	100.0%	99.9%	32,441	81.1%	100.0%	81.1%
Catron County					3,527	8.3%	68.8%	7.7%
Chaves County	48,633	99.0%	100.0%	99.0%	15,982	69.2%	99.9%	69.2%
Cibola County	11,292	100.0%	100.0%	100.0%	15,383	43.9%	99.9%	43.9%
Colfax County	5,810	23.8%	100.0%	23.8%	6,131	28.8%	100.0%	28.8%

	Urban Areas				Rural Areas			
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Curry County	40,907	95.7%	100.0%	95.7%	8,047	71.9%	100.0%	71.9%
De Baca County					1,748	81.2%	100.0%	81.2%
Doña Ana County	171,195	92.8%	100.0%	92.8%	46,322	54.4%	100.0%	54.4%
Eddy County	42,992	99.2%	100.0%	99.2%	15,466	44.3%	99.9%	44.3%
Grant County	15,535	97.7%	100.0%	97.7%	11,463	69.2%	99.7%	69.2%
Guadalupe County	1,830	100.0%	100.0%	100.0%	2,470	44.9%	100.0%	44.9%
Harding County					625	68.6%	100.0%	68.6%
Hidalgo County					4,198	7.1%	98.8%	6.5%
Lea County	51,590	99.8%	100.0%	99.8%	19,476	75.7%	100.0%	75.7%
Lincoln County	8,846	96.6%	100.0%	96.6%	10,726	78.1%	100.0%	78.1%
Los Alamos County	16,737	100.0%	100.0%	100.0%	2,632	95.8%	100.0%	95.8%
Luna County	13,535	91.2%	100.0%	91.2%	10,174	14.2%	99.9%	14.1%
McKinley County	25,574	83.5%	100.0%	83.5%	45,793	33.5%	99.9%	33.5%
Mora County					4,521	63.5%	96.8%	62.9%
Otero County	44,894	89.6%	100.0%	89.6%	22,596	57.6%	90.9%	57.5%
Quay County	4,540	69.3%	100.0%	69.3%	3,713	53.6%	100.0%	53.6%
Rio Arriba County	19,353	99.8%	100.0%	99.8%	19,568	72.8%	95.7%	70.4%
Roosevelt County	11,108	99.1%	100.0%	99.1%	7,392	53.9%	100.0%	53.9%
San Juan County	74,887	96.4%	100.0%	96.4%	49,071	50.8%	99.8%	50.8%
San Miguel County	14,386	57.8%	100.0%	57.8%	12,891	40.1%	97.3%	39.8%
Sandoval County	113,835	100.0%	100.0%	100.0%	32,910	62.9%	99.6%	62.7%
Santa Fe County	110,348	100.0%	100.0%	100.0%	40,009	92.7%	100.0%	92.7%
Sierra County	7,266	98.6%	100.0%	98.6%	3,525	48.2%	94.7%	44.5%
Socorro County	7,995	0.7%	100.0%	0.7%	8,642	8.1%	99.6%	8.1%
Taos County	13,306	90.6%	100.0%	90.6%	19,417	69.8%	85.6%	59.7%
Torrance County	200	100.0%	100.0%	100.0%	15,261	43.7%	100.0%	43.7%
Union County					4,059	76.4%	100.0%	76.4%
Valencia County	63,476	91.8%	100.0%	91.8%	13,212	60.8%	100.0%	60.8%
New York	**17,108,084**	**99.3%**	**100.0%**	**99.3%**	**2,345,472**	**94.3%**	**99.7%**	**94.1%**
Albany County	274,862	100.0%	100.0%	100.0%	30,644	97.5%	99.8%	97.3%
Allegany County	8,291	100.0%	100.0%	100.0%	37,800	71.5%	99.9%	71.5%

	Urban Areas				Rural Areas			
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Bronx County	1,418,165	98.2%	100.0%	98.2%	42	16.7%	54.8%	16.7%
Broome County	138,687	99.9%	100.0%	99.9%	51,801	97.0%	100.0%	97.0%
Cattaraugus County	28,186	99.5%	100.0%	99.5%	47,931	71.9%	99.9%	71.9%
Cayuga County	33,122	100.0%	100.0%	100.0%	43,454	94.6%	100.0%	94.6%
Chautauqua County	69,527	100.0%	100.0%	100.0%	57,376	95.2%	100.0%	95.2%
Chemung County	62,088	100.0%	100.0%	100.0%	21,368	92.4%	99.9%	92.3%
Chenango County	7,206	100.0%	100.0%	100.0%	40,001	95.0%	98.3%	93.5%
Clinton County	28,565	99.9%	100.0%	99.9%	51,920	90.0%	99.7%	89.8%
Columbia County	14,840	99.7%	100.0%	99.7%	44,621	99.0%	100.0%	99.0%
Cortland County	25,803	100.0%	100.0%	100.0%	21,778	90.7%	100.0%	90.7%
Delaware County	8,108	100.0%	100.0%	100.0%	36,027	97.1%	98.6%	96.0%
Dutchess County	217,909	97.8%	100.0%	97.8%	76,308	97.8%	100.0%	97.8%
Erie County	830,894	100.0%	100.0%	100.0%	87,808	98.4%	100.0%	98.4%
Essex County	8,730	100.0%	100.0%	100.0%	28,155	92.0%	98.1%	90.5%
Franklin County	17,205	100.0%	100.0%	100.0%	32,817	92.9%	99.0%	92.5%
Fulton County	26,644	100.0%	100.0%	100.0%	26,739	93.3%	99.0%	92.5%
Genesee County	21,490	100.0%	100.0%	100.0%	35,790	93.4%	100.0%	93.4%
Greene County	11,576	99.9%	100.0%	99.9%	35,612	97.8%	99.6%	97.4%
Hamilton County					4,416	85.3%	93.4%	80.5%
Herkimer County	28,298	100.0%	100.0%	100.0%	33,021	88.2%	99.4%	87.8%
Jefferson County	52,694	100.0%	100.0%	100.0%	57,140	97.1%	100.0%	97.1%
Kings County	2,559,779	99.8%	100.0%	99.8%	124	37.9%	99.2%	37.9%
Lewis County	3,187	100.0%	100.0%	100.0%	23,109	83.5%	99.7%	83.5%
Livingston County	27,884	100.0%	100.0%	100.0%	35,030	83.3%	100.0%	83.3%
Madison County	28,593	100.0%	100.0%	100.0%	42,347	90.3%	100.0%	90.3%
Monroe County	693,097	100.0%	100.0%	100.0%	48,673	99.8%	99.8%	99.6%
Montgomery County	28,586	100.0%	100.0%	100.0%	20,635	95.1%	100.0%	95.1%
Nassau County	1,354,179	99.3%	100.0%	99.3%	2,745	97.7%	99.9%	97.7%
New York County	1,628,706	100.0%	100.0%	100.0%				
Niagara County	161,504	99.9%	100.0%	99.9%	47,777	97.2%	100.0%	97.2%
Oneida County	151,456	100.0%	100.0%	100.0%	77,215	91.4%	100.0%	91.4%

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Onondaga County	401,392	100.0%	100.0%	100.0%	59,136	99.2%	100.0%	99.2%
Ontario County	57,370	100.0%	100.0%	100.0%	52,407	98.8%	100.0%	98.8%
Orange County	296,840	98.9%	100.0%	98.9%	88,097	98.4%	100.0%	98.4%
Orleans County	14,749	100.0%	100.0%	100.0%	25,603	96.0%	100.0%	96.0%
Oswego County	42,537	100.0%	100.0%	100.0%	74,587	99.2%	100.0%	99.2%
Otsego County	15,805	100.0%	100.0%	100.0%	43,688	88.7%	99.4%	88.3%
Putnam County	77,886	98.9%	100.0%	98.9%	20,434	98.9%	100.0%	98.9%
Queens County	2,253,846	100.0%	100.0%	100.0%	12	75.0%	100.0%	75.0%
Rensselaer County	109,661	100.0%	100.0%	100.0%	49,053	99.9%	100.0%	99.9%
Richmond County	476,143	100.0%	100.0%	100.0%				
Rockland County	323,227	98.7%	100.0%	98.7%	2,562	97.3%	100.0%	97.3%
Saratoga County	159,890	100.0%	100.0%	100.0%	69,973	99.7%	98.6%	98.4%
Schenectady County	142,450	100.0%	100.0%	100.0%	12,849	99.7%	100.0%	99.7%
Schoharie County	4,366	100.0%	100.0%	100.0%	26,633	98.9%	99.7%	98.7%
Schuyler County	3,270	100.0%	100.0%	100.0%	14,537	96.8%	100.0%	96.8%
Seneca County	13,942	100.0%	100.0%	100.0%	20,074	99.3%	100.0%	99.3%
St. Lawrence County	38,408	100.0%	100.0%	100.0%	69,332	92.8%	99.9%	92.7%
Steuben County	36,406	100.0%	100.0%	100.0%	58,973	83.8%	99.9%	83.8%
Suffolk County	1,436,479	96.6%	100.0%	96.6%	40,122	92.9%	99.9%	92.7%
Sullivan County	18,575	100.0%	100.0%	100.0%	56,857	99.3%	100.0%	99.3%
Tioga County	15,728	100.0%	100.0%	100.0%	32,475	94.6%	100.0%	94.6%
Tompkins County	55,899	100.0%	100.0%	100.0%	46,281	96.9%	100.0%	96.9%
Ulster County	94,343	99.8%	100.0%	99.8%	83,230	99.3%	98.9%	98.2%
Warren County	41,840	100.0%	100.0%	100.0%	22,104	89.0%	97.8%	87.7%
Washington County	19,516	100.0%	100.0%	100.0%	41,688	96.6%	100.0%	96.6%
Wayne County	34,123	100.0%	100.0%	100.0%	55,795	94.1%	100.0%	94.1%
Westchester County	933,665	98.7%	100.0%	98.7%	33,841	98.4%	100.0%	98.4%
Wyoming County	12,978	100.0%	100.0%	100.0%	26,881	78.4%	100.0%	78.4%
Yates County	6,889	100.0%	100.0%	100.0%	18,024	90.7%	100.0%	90.7%
North Carolina	**6,995,725**	**99.7%**	**100.0%**	**99.7%**	**3,491,989**	**87.0%**	**99.7%**	**86.8%**
Alamance County	119,445	100.0%	100.0%	100.0%	50,055	96.0%	100.0%	96.0%

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Alexander County	10,187	100.0%	100.0%	100.0%	27,310	98.5%	100.0%	98.5%
Alleghany County					11,137	99.8%	98.8%	98.6%
Anson County	5,394	100.0%	100.0%	100.0%	19,052	86.5%	100.0%	86.5%
Ashe County	4,135	100.0%	100.0%	100.0%	23,068	99.5%	95.7%	95.2%
Avery County	1,975	99.8%	100.0%	99.8%	15,582	97.9%	99.8%	97.7%
Beaufort County	15,939	97.3%	100.0%	97.3%	31,055	80.7%	100.0%	80.7%
Bertie County	2,563	94.5%	100.0%	94.5%	16,384	71.3%	100.0%	71.3%
Bladen County	2,844	100.0%	100.0%	100.0%	29,878	69.2%	100.0%	69.2%
Brunswick County	74,359	99.9%	100.0%	99.9%	68,459	95.4%	99.8%	95.3%
Buncombe County	194,889	99.9%	100.0%	99.9%	66,299	97.0%	100.0%	97.0%
Burke County	51,991	100.0%	100.0%	100.0%	38,494	97.3%	100.0%	97.3%
Cabarrus County	170,411	100.0%	100.0%	100.0%	46,032	97.8%	100.0%	97.8%
Caldwell County	53,744	100.0%	100.0%	100.0%	28,433	98.6%	99.8%	98.4%
Camden County	48	85.4%	100.0%	85.4%	10,819	93.5%	100.0%	93.5%
Carteret County	46,800	100.0%	99.9%	99.9%	22,673	99.4%	99.8%	99.3%
Caswell County	191	92.1%	100.0%	92.1%	22,413	57.0%	100.0%	57.0%
Catawba County	110,837	100.0%	100.0%	100.0%	48,708	98.5%	100.0%	98.5%
Chatham County	24,215	99.2%	100.0%	99.2%	50,254	76.0%	100.0%	76.0%
Cherokee County					28,612	83.6%	97.2%	82.8%
Chowan County	4,310	99.2%	100.0%	99.2%	9,633	96.1%	100.0%	96.1%
Clay County					11,231	81.8%	99.2%	81.4%
Cleveland County	43,166	100.0%	100.0%	100.0%	54,780	94.3%	100.0%	94.3%
Columbus County	9,289	99.7%	100.0%	99.7%	46,219	80.9%	100.0%	80.9%
Craven County	72,894	97.4%	100.0%	97.4%	29,245	72.2%	100.0%	72.2%
Cumberland County	288,982	100.0%	100.0%	100.0%	46,523	96.5%	100.0%	96.5%
Currituck County	465	99.8%	99.8%	99.8%	27,297	97.3%	100.0%	97.3%
Dare County	26,099	99.9%	99.6%	99.5%	10,910	97.6%	98.8%	96.4%
Davidson County	87,775	100.0%	100.0%	100.0%	79,831	99.2%	100.0%	99.2%
Davie County	12,680	100.0%	100.0%	100.0%	30,166	99.4%	100.0%	99.4%
Duplin County	7,890	95.8%	100.0%	95.8%	50,851	65.6%	100.0%	65.6%
Durham County	298,305	100.0%	100.0%	100.0%	23,156	91.5%	100.0%	91.5%

	Urban Areas				Rural Areas			
County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both
Edgecombe County	27,282	96.7%	100.0%	96.7%	24,190	70.9%	100.0%	70.9%
Forsyth County	352,780	100.0%	100.0%	100.0%	29,508	99.8%	100.0%	99.8%
Franklin County	9,934	99.6%	100.0%	99.6%	59,740	84.5%	99.3%	84.4%
Gaston County	179,346	100.0%	100.0%	100.0%	45,180	99.3%	100.0%	99.3%
Gates County					11,562	58.6%	100.0%	58.6%
Graham County					8,441	66.1%	99.1%	66.1%
Granville County	26,319	99.6%	100.0%	99.6%	34,124	77.2%	100.0%	77.2%
Greene County					21,068	26.4%	100.0%	26.4%
Guilford County	464,706	100.0%	100.0%	100.0%	72,464	98.6%	100.0%	98.6%
Halifax County	23,512	99.1%	100.0%	99.1%	26,498	68.1%	100.0%	68.1%
Harnett County	59,091	99.9%	100.0%	99.9%	76,877	91.6%	100.0%	91.6%
Haywood County	27,260	99.3%	100.0%	99.3%	35,057	71.2%	99.3%	71.2%
Henderson County	77,182	98.9%	100.0%	98.9%	40,233	80.7%	98.0%	78.7%
Hertford County	7,251	100.0%	100.0%	100.0%	16,426	75.0%	100.0%	75.0%
Hoke County	30,020	99.8%	100.0%	99.8%	25,213	77.4%	100.0%	77.4%
Hyde County					4,937	12.1%	99.9%	12.1%
Iredell County	110,158	100.0%	100.0%	100.0%	71,643	95.8%	100.0%	95.8%
Jackson County	11,072	99.2%	100.0%	99.2%	32,866	47.5%	98.8%	47.3%
Johnston County	98,558	99.9%	100.0%	99.9%	110,760	89.9%	100.0%	89.9%
Jones County					9,419	50.8%	100.0%	50.8%
Lee County	34,703	99.9%	100.0%	99.9%	27,074	96.2%	100.0%	96.2%
Lenoir County	30,327	93.9%	100.0%	93.9%	25,622	68.8%	100.0%	68.8%
Lincoln County	39,028	99.8%	100.0%	99.8%	47,079	97.9%	100.0%	97.9%
Macon County	6,971	99.9%	100.0%	99.9%	28,886	62.0%	99.6%	61.9%
Madison County	1,965	99.1%	100.0%	99.1%	19,790	70.3%	87.6%	65.0%
Martin County	4,573	96.9%	100.0%	96.9%	17,867	61.7%	100.0%	61.7%
McDowell County	13,463	99.6%	100.0%	99.6%	32,292	76.2%	99.9%	76.2%
Mecklenburg County	1,093,189	100.0%	100.0%	100.0%	17,154	99.9%	100.0%	99.9%
Mitchell County	2,582	96.1%	100.0%	96.1%	12,382	88.6%	95.8%	84.8%
Montgomery County	6,232	99.7%	100.0%	99.7%	20,941	57.2%	99.9%	57.1%
Moore County	48,804	99.9%	100.0%	99.9%	52,070	81.7%	100.0%	81.7%

	Urban Areas				Rural Areas			
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Nash County	48,294	97.4%	100.0%	97.4%	46,004	79.2%	100.0%	79.2%
New Hanover County	228,320	100.0%	99.9%	99.9%	6,149	94.0%	100.0%	93.9%
Northampton County	2,132	99.5%	100.0%	99.5%	17,351	78.5%	100.0%	78.5%
Onslow County	138,140	100.0%	100.0%	100.0%	59,797	90.6%	100.0%	90.6%
Orange County	102,622	100.0%	100.0%	100.0%	45,843	80.8%	100.0%	80.8%
Pamlico County					12,726	86.0%	99.8%	85.8%
Pasquotank County	23,566	100.0%	100.0%	100.0%	16,258	99.7%	100.0%	99.7%
Pender County	18,736	100.0%	100.0%	100.0%	44,322	69.0%	99.9%	68.9%
Perquimans County					13,462	87.8%	100.0%	87.8%
Person County	9,566	99.9%	100.0%	99.9%	29,924	98.5%	100.0%	98.5%
Pitt County	132,934	96.8%	100.0%	96.8%	47,807	72.1%	100.0%	72.1%
Polk County	1,589	100.0%	100.0%	100.0%	19,134	89.1%	100.0%	89.1%
Randolph County	62,789	99.9%	100.0%	99.9%	80,877	95.7%	100.0%	95.7%
Richmond County	24,674	100.0%	100.0%	100.0%	20,155	86.1%	100.0%	86.1%
Robeson County	47,851	99.9%	100.0%	99.9%	82,774	76.6%	100.0%	76.6%
Rockingham County	34,573	100.0%	100.0%	100.0%	56,436	95.3%	100.0%	95.3%
Rowan County	86,500	100.0%	100.0%	100.0%	55,584	95.4%	100.0%	95.4%
Rutherford County	24,945	97.9%	100.0%	97.9%	42,084	89.2%	99.9%	89.1%
Sampson County	9,486	74.2%	100.0%	74.2%	54,045	63.8%	100.0%	63.8%
Scotland County	17,771	100.0%	100.0%	100.0%	17,052	81.8%	100.0%	81.8%
Stanly County	20,263	100.0%	100.0%	100.0%	42,542	97.8%	100.0%	97.8%
Stokes County	10,773	100.0%	100.0%	100.0%	34,818	96.7%	100.0%	96.7%
Surry County	21,765	100.0%	100.0%	100.0%	50,018	99.7%	99.7%	99.4%
Swain County					14,271	67.1%	99.7%	67.1%
Transylvania County	13,761	100.0%	100.0%	100.0%	20,623	83.2%	96.6%	82.0%
Tyrrell County					4,016	52.1%	100.0%	52.1%
Union County	171,392	100.0%	100.0%	100.0%	68,460	96.5%	100.0%	96.5%
Vance County	20,743	99.7%	100.0%	99.7%	23,792	90.9%	100.0%	90.9%
Wake County	1,027,485	100.0%	100.0%	100.0%	84,268	98.2%	100.0%	98.2%
Warren County					19,731	67.1%	99.2%	67.0%
Washington County	3,801	96.7%	100.0%	96.7%	7,779	76.7%	100.0%	76.7%

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Watauga County	23,509	100.0%	100.0%	100.0%	32,666	97.8%	99.0%	96.8%
Wayne County	65,760	100.0%	100.0%	100.0%	57,371	92.8%	100.0%	92.8%
Wilkes County	18,344	99.9%	100.0%	99.9%	50,068	99.2%	98.5%	97.6%
Wilson County	49,796	99.1%	100.0%	99.1%	32,005	97.0%	100.0%	97.0%
Yadkin County	5,715	100.0%	100.0%	100.0%	31,952	99.1%	100.0%	99.1%
Yancey County					17,903	90.9%	96.1%	87.3%
North Dakota	**416,939**	**99.0%**	**100.0%**	**99.0%**	**344,768**	**94.2%**	**99.9%**	**94.1%**
Adams County					2,216	100.0%	99.9%	99.9%
Barnes County	5,873	100.0%	100.0%	100.0%	4,542	89.7%	100.0%	89.7%
Benson County					6,832	99.5%	100.0%	99.5%
Billings County					928	53.7%	97.3%	52.0%
Bottineau County					6,282	99.9%	100.0%	99.9%
Bowman County					3,024	100.0%	100.0%	100.0%
Burke County					2,115	81.8%	100.0%	81.8%
Burleigh County	70,082	99.0%	100.0%	99.0%	25,543	98.3%	100.0%	98.3%
Cass County	149,553	98.5%	100.0%	98.5%	32,370	86.4%	100.0%	86.4%
Cavalier County					3,762	100.0%	99.7%	99.7%
Dickey County					4,872	99.8%	100.0%	99.8%
Divide County					2,264	95.9%	92.7%	90.2%
Dunn County					4,423	98.2%	99.9%	98.1%
Eddy County					2,287	100.0%	100.0%	100.0%
Emmons County					3,241	100.0%	100.0%	100.0%
Foster County					3,210	100.0%	100.0%	100.0%
Golden Valley County					1,761	60.7%	98.9%	60.1%
Grand Forks County	55,043	99.9%	100.0%	99.9%	14,408	94.4%	100.0%	94.4%
Grant County					2,274	96.5%	99.3%	96.1%
Griggs County					2,231	95.6%	100.0%	95.6%
Hettinger County					2,499	100.0%	100.0%	100.0%
Kidder County					2,480	100.0%	100.0%	100.0%
LaMoure County					4,046	100.0%	100.0%	100.0%
Logan County					1,850	100.0%	100.0%	100.0%

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McHenry County					5,745	99.9%	100.0%	99.9%
McIntosh County					2,497	100.0%	100.0%	100.0%
McKenzie County					15,014	72.8%	99.1%	72.1%
McLean County					9,450	91.8%	100.0%	91.8%
Mercer County	2,634	100.0%	100.0%	100.0%	5,553	99.8%	100.0%	99.8%
Morton County	19,105	99.6%	100.0%	99.6%	12,258	92.7%	100.0%	92.7%
Mountrail County					10,218	86.3%	100.0%	86.3%
Nelson County					2,878	100.0%	100.0%	100.0%
Oliver County					1,959	99.7%	100.0%	99.7%
Pembina County					6,801	100.0%	100.0%	100.0%
Pierce County	2,240	100.0%	100.0%	100.0%	1,735	100.0%	100.0%	100.0%
Ramsey County	6,953	100.0%	100.0%	100.0%	4,565	100.0%	100.0%	100.0%
Ransom County					5,218	99.4%	100.0%	99.4%
Renville County					2,327	98.8%	100.0%	98.8%
Richland County	7,558	100.0%	100.0%	100.0%	8,619	99.5%	100.0%	99.5%
Rolette County					14,176	98.9%	99.9%	98.8%
Sargent County					3,895	100.0%	100.0%	100.0%
Sheridan County					1,315	99.8%	100.0%	99.8%
Sioux County					4,230	96.7%	99.4%	96.5%
Slope County					750	98.3%	99.7%	98.3%
Stark County	17,222	100.0%	100.0%	100.0%	14,267	95.7%	100.0%	95.7%
Steele County					1,890	96.0%	100.0%	96.0%
Stutsman County	14,749	100.0%	100.0%	100.0%	5,955	93.1%	100.0%	93.1%
Towner County					2,189	86.9%	100.0%	86.9%
Traill County					8,036	98.0%	100.0%	98.0%
Walsh County	3,804	100.0%	100.0%	100.0%	6,837	96.4%	100.0%	96.4%
Ward County	47,470	98.3%	100.0%	98.3%	20,171	96.0%	100.0%	96.0%
Wells County					3,834	100.0%	100.0%	100.0%
Williams County	14,653	97.9%	100.0%	97.9%	22,926	92.9%	99.8%	92.6%
Ohio	**9,098,615**	**99.7%**	**100.0%**	**99.7%**	**2,590,183**	**88.4%**	**99.9%**	**88.4%**
Adams County	2,852	100.0%	100.0%	100.0%	24,846	71.4%	100.0%	71.4%

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Allen County	74,916	100.0%	100.0%	100.0%	27,435	94.0%	100.0%	94.0%
Ashland County	20,085	100.0%	100.0%	100.0%	33,399	100.0%	100.0%	100.0%
Ashtabula County	50,818	100.0%	99.9%	99.9%	46,423	85.7%	100.0%	85.7%
Athens County	35,550	78.9%	100.0%	78.9%	29,777	75.5%	99.8%	75.4%
Auglaize County	27,624	100.0%	100.0%	100.0%	18,032	90.0%	100.0%	90.0%
Belmont County	30,972	96.8%	100.0%	96.8%	36,034	83.1%	100.0%	83.1%
Brown County	9,899	100.0%	100.0%	100.0%	33,533	82.3%	100.0%	82.3%
Butler County	346,705	100.0%	100.0%	100.0%	36,426	98.2%	100.0%	98.2%
Carroll County	7,217	100.0%	100.0%	100.0%	19,697	56.8%	100.0%	56.8%
Champaign County	10,985	100.0%	100.0%	100.0%	27,900	89.3%	100.0%	89.3%
Clark County	102,119	100.0%	100.0%	100.0%	31,964	99.0%	100.0%	99.0%
Clermont County	158,344	100.0%	100.0%	100.0%	48,084	97.7%	100.0%	97.7%
Clinton County	18,994	100.0%	100.0%	100.0%	22,974	67.1%	100.0%	67.1%
Columbiana County	55,599	97.4%	100.0%	97.4%	46,284	68.8%	100.0%	68.8%
Coshocton County	14,014	100.0%	100.0%	100.0%	22,586	56.6%	99.4%	56.5%
Crawford County	26,222	100.0%	100.0%	100.0%	15,272	98.9%	100.0%	98.9%
Cuyahoga County	1,227,726	99.5%	100.0%	99.5%	7,346	100.0%	100.0%	100.0%
Darke County	16,393	100.0%	100.0%	100.0%	34,720	92.8%	100.0%	92.8%
Defiance County	20,966	100.0%	100.0%	100.0%	17,121	100.0%	100.0%	100.0%
Delaware County	166,188	100.0%	100.0%	100.0%	42,950	97.2%	100.0%	97.2%
Erie County	53,989	100.0%	99.8%	99.8%	20,277	100.0%	100.0%	100.0%
Fairfield County	101,516	100.0%	100.0%	100.0%	56,049	93.7%	100.0%	93.7%
Fayette County	14,780	100.0%	100.0%	100.0%	13,745	74.6%	100.0%	74.6%
Franklin County	1,296,639	100.0%	100.0%	100.0%	20,104	99.7%	100.0%	99.7%
Fulton County	18,002	100.0%	100.0%	100.0%	24,124	100.0%	100.0%	100.0%
Gallia County	5,491	99.3%	100.0%	99.3%	24,407	85.8%	99.5%	85.5%
Geauga County	33,671	99.7%	100.0%	99.7%	59,978	90.1%	100.0%	90.1%
Greene County	142,576	100.0%	100.0%	100.0%	26,360	88.3%	100.0%	88.3%
Guernsey County	14,871	98.0%	100.0%	98.0%	24,004	73.3%	100.0%	73.3%
Hamilton County	798,444	100.0%	100.0%	100.0%	19,029	100.0%	100.0%	100.0%
Hancock County	51,618	100.0%	100.0%	100.0%	24,165	93.7%	100.0%	93.7%

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Hardin County	13,565	100.0%	100.0%	100.0%	17,800	95.1%	100.0%	95.1%
Harrison County	2,187	100.0%	100.0%	100.0%	12,853	59.5%	100.0%	59.5%
Henry County	7,766	100.0%	100.0%	100.0%	19,240	100.0%	100.0%	100.0%
Highland County	11,462	100.0%	100.0%	100.0%	31,699	65.4%	99.9%	65.3%
Hocking County	7,835	100.0%	100.0%	100.0%	20,429	60.0%	99.9%	60.0%
Holmes County	3,010	100.0%	100.0%	100.0%	40,950	100.0%	99.8%	99.8%
Huron County	28,353	100.0%	100.0%	100.0%	29,913	100.0%	100.0%	100.0%
Jackson County	11,546	99.9%	100.0%	99.9%	20,867	78.0%	100.0%	78.0%
Jefferson County	38,606	97.7%	100.0%	97.7%	26,719	85.6%	99.9%	85.6%
Knox County	26,745	100.0%	100.0%	100.0%	35,575	62.1%	100.0%	62.1%
Lake County	215,045	100.0%	100.0%	100.0%	15,104	98.8%	100.0%	98.8%
Lawrence County	32,808	95.7%	100.0%	95.7%	26,655	75.0%	95.4%	74.4%
Licking County	110,934	100.0%	100.0%	100.0%	65,925	87.7%	100.0%	87.7%
Logan County	19,400	100.0%	100.0%	100.0%	26,271	90.5%	100.0%	90.5%
Lorain County	273,188	100.0%	100.0%	100.0%	36,643	100.0%	100.0%	100.0%
Lucas County	407,759	99.0%	100.0%	99.0%	20,589	98.0%	100.0%	98.0%
Madison County	22,188	99.6%	100.0%	99.6%	22,542	88.8%	100.0%	88.8%
Mahoning County	192,820	99.3%	100.0%	99.3%	35,863	95.6%	100.0%	95.6%
Marion County	44,908	100.0%	100.0%	100.0%	20,185	98.1%	100.0%	98.1%
Medina County	125,796	100.0%	100.0%	100.0%	53,941	100.0%	100.0%	100.0%
Meigs County	4,165	97.4%	100.0%	97.4%	18,742	60.4%	99.5%	60.2%
Mercer County	15,774	100.0%	100.0%	100.0%	25,392	100.0%	100.0%	100.0%
Miami County	73,198	100.0%	100.0%	100.0%	33,785	97.7%	100.0%	97.7%
Monroe County	206	0.0%	100.0%	0.0%	13,448	40.0%	99.3%	40.0%
Montgomery County	508,345	100.0%	100.0%	100.0%	23,342	95.5%	100.0%	95.5%
Morgan County	2,628	100.0%	100.0%	100.0%	11,880	52.2%	99.2%	52.2%
Morrow County	3,928	100.0%	100.0%	100.0%	31,395	78.4%	100.0%	78.4%
Muskingum County	44,859	100.0%	100.0%	100.0%	41,356	77.7%	99.5%	77.3%
Noble County	5,264	100.0%	100.0%	100.0%	9,160	47.3%	99.4%	47.3%
Ottawa County	20,431	100.0%	99.1%	99.1%	20,094	100.0%	99.8%	99.8%
Paulding County	3,197	100.0%	100.0%	100.0%	15,475	100.0%	100.0%	100.0%

	Urban Areas				Rural Areas			
County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both
Perry County	8,894	99.9%	100.0%	99.9%	27,139	62.6%	100.0%	62.6%
Pickaway County	28,874	100.0%	100.0%	100.0%	29,570	87.0%	100.0%	87.0%
Pike County	6,929	97.8%	100.0%	97.8%	20,843	84.4%	99.9%	84.3%
Portage County	108,334	99.9%	100.0%	99.9%	54,132	97.9%	100.0%	97.9%
Preble County	12,629	100.0%	100.0%	100.0%	28,253	98.2%	100.0%	98.2%
Putnam County	4,883	100.0%	100.0%	100.0%	28,897	100.0%	100.0%	100.0%
Richland County	81,052	100.0%	100.0%	100.0%	40,102	99.4%	100.0%	99.4%
Ross County	31,422	100.0%	100.0%	100.0%	45,244	90.6%	100.0%	90.6%
Sandusky County	31,993	100.0%	100.0%	100.0%	26,525	100.0%	100.0%	100.0%
Scioto County	33,487	100.0%	100.0%	100.0%	41,827	83.0%	99.3%	82.9%
Seneca County	28,475	100.0%	100.0%	100.0%	26,703	93.3%	100.0%	93.3%
Shelby County	23,451	100.0%	100.0%	100.0%	25,139	95.5%	100.0%	95.5%
Stark County	319,714	100.0%	100.0%	100.0%	50,892	96.1%	100.0%	96.1%
Summit County	519,793	100.0%	100.0%	100.0%	21,220	99.8%	100.0%	99.8%
Trumbull County	142,755	99.5%	100.0%	99.5%	55,219	92.4%	100.0%	92.4%
Tuscarawas County	53,701	100.0%	100.0%	100.0%	38,286	74.3%	100.0%	74.3%
Union County	28,040	100.0%	100.0%	100.0%	30,947	99.0%	100.0%	99.0%
Van Wert County	13,583	100.0%	100.0%	100.0%	14,692	100.0%	100.0%	100.0%
Vinton County					13,085	66.1%	99.9%	66.1%
Warren County	192,249	100.0%	100.0%	100.0%	42,347	90.5%	100.0%	90.5%
Washington County	25,726	93.2%	100.0%	93.2%	34,185	66.8%	98.9%	66.7%
Wayne County	55,872	99.5%	100.0%	99.5%	59,838	96.2%	100.0%	96.2%
Williams County	13,190	100.0%	100.0%	100.0%	23,502	100.0%	100.0%	100.0%
Wood County	91,009	100.0%	100.0%	100.0%	39,806	100.0%	100.0%	100.0%
Wyandot County	8,859	100.0%	100.0%	100.0%	12,913	92.0%	100.0%	92.0%
Oklahoma	**2,593,755**	**96.3%**	**100.0%**	**96.3%**	**1,360,536**	**71.8%**	**99.7%**	**71.7%**
Adair County	3,526	97.9%	100.0%	97.9%	18,668	72.3%	100.0%	72.3%
Alfalfa County					5,702	94.4%	100.0%	94.4%
Atoka County					13,758	52.6%	100.0%	52.6%
Beaver County					5,311	80.3%	100.0%	80.2%
Beckham County	13,430	96.4%	100.0%	96.4%	8,428	33.4%	100.0%	33.4%

	Urban Areas				Rural Areas			
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Blaine County	2,641	98.7%	100.0%	98.7%	6,788	76.3%	100.0%	76.3%
Bryan County	17,364	98.4%	100.0%	98.4%	30,627	95.5%	100.0%	95.5%
Caddo County	5,700	1.4%	100.0%	1.4%	23,062	65.7%	100.0%	65.7%
Canadian County	102,706	95.6%	100.0%	95.6%	45,531	72.7%	100.0%	72.7%
Carter County	20,984	100.0%	100.0%	100.0%	27,127	100.0%	100.0%	100.0%
Cherokee County	18,928	83.1%	100.0%	83.1%	29,729	77.9%	100.0%	77.9%
Choctaw County	4,740	68.1%	100.0%	68.1%	9,928	21.4%	100.0%	21.4%
Cimarron County					2,137	74.3%	99.0%	73.7%
Cleveland County	226,924	96.5%	100.0%	96.5%	54,733	88.1%	100.0%	88.1%
Coal County					5,495	78.5%	100.0%	78.5%
Comanche County	94,539	96.1%	100.0%	96.1%	26,208	89.4%	100.0%	89.4%
Cotton County	2,172	25.3%	100.0%	25.3%	3,494	78.9%	100.0%	78.9%
Craig County	5,237	100.0%	100.0%	100.0%	8,905	99.3%	100.0%	99.3%
Creek County	32,506	88.0%	100.0%	88.0%	39,016	51.1%	100.0%	51.1%
Custer County	18,915	91.7%	100.0%	91.7%	10,088	54.7%	100.0%	54.7%
Delaware County	7,942	99.3%	100.0%	99.3%	35,065	88.9%	100.0%	88.9%
Dewey County					4,891	32.7%	100.0%	32.7%
Ellis County					3,859	73.7%	99.8%	73.7%
Garfield County	46,444	95.6%	100.0%	95.6%	14,610	58.7%	100.0%	58.7%
Garvin County	8,161	86.3%	100.0%	86.3%	19,550	75.2%	100.0%	75.2%
Grady County	19,520	93.5%	100.0%	93.5%	36,308	55.5%	100.0%	55.5%
Grant County					4,333	89.9%	100.0%	89.9%
Greer County	2,745	98.9%	100.0%	98.9%	2,967	6.0%	100.0%	6.0%
Harmon County					2,653	88.1%	100.0%	88.1%
Harper County					3,688	83.8%	100.0%	83.8%
Haskell County	2,746	99.0%	100.0%	99.0%	9,881	22.9%	100.0%	22.9%
Hughes County	5,052	97.0%	100.0%	97.0%	8,227	27.4%	100.0%	27.4%
Jackson County	18,068	98.6%	100.0%	98.6%	6,462	27.1%	100.0%	27.1%
Jefferson County					6,002	66.5%	100.0%	66.5%
Johnston County					10,949	94.0%	100.0%	94.0%
Kay County	32,379	99.9%	100.0%	99.9%	11,159	79.6%	100.0%	79.6%

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Kingfisher County	4,161	98.0%	100.0%	98.0%	11,604	90.6%	100.0%	90.6%
Kiowa County	3,241	98.2%	100.0%	98.2%	5,467	58.6%	100.0%	58.6%
Latimer County	2,657	91.5%	100.0%	91.5%	7,416	37.8%	96.3%	36.4%
Le Flore County	13,453	93.5%	100.0%	93.5%	36,400	41.1%	99.8%	41.1%
Lincoln County	2,719	100.0%	100.0%	100.0%	32,158	91.0%	100.0%	91.0%
Logan County	19,805	100.0%	100.0%	100.0%	28,197	100.0%	100.0%	100.0%
Love County					10,252	100.0%	100.0%	100.0%
Major County					7,629	35.2%	100.0%	35.2%
Marshall County	4,540	100.0%	100.0%	100.0%	12,391	100.0%	100.0%	100.0%
Mayes County	9,169	96.8%	100.0%	96.8%	31,931	94.7%	100.0%	94.7%
McClain County	8,481	96.4%	100.0%	96.4%	31,986	82.7%	100.0%	82.7%
McCurtain County	9,755	79.9%	100.0%	79.9%	23,077	46.6%	94.8%	45.3%
McIntosh County	2,386	98.7%	100.0%	98.7%	17,210	32.8%	100.0%	32.8%
Murray County	7,472	100.0%	100.0%	100.0%	6,600	100.0%	100.0%	100.0%
Muskogee County	37,914	92.9%	100.0%	92.9%	30,083	35.8%	100.0%	35.8%
Noble County	4,778	100.0%	100.0%	100.0%	6,353	87.8%	100.0%	87.8%
Nowata County	4,091	100.0%	100.0%	100.0%	5,985	74.8%	100.0%	74.8%
Okfuskee County	2,996	97.6%	100.0%	97.6%	8,997	16.3%	100.0%	16.3%
Oklahoma County	736,781	97.3%	100.0%	97.3%	60,623	91.1%	100.0%	91.1%
Okmulgee County	19,320	82.8%	100.0%	82.8%	19,145	25.3%	100.0%	25.3%
Osage County	18,414	88.9%	100.0%	88.9%	28,549	63.9%	99.9%	63.9%
Ottawa County	15,519	100.0%	100.0%	100.0%	15,608	99.9%	100.0%	99.9%
Pawnee County	3,020	0.1%	100.0%	0.1%	13,356	42.8%	100.0%	42.8%
Payne County	52,294	100.0%	100.0%	100.0%	29,490	100.0%	100.0%	100.0%
Pittsburg County	20,145	98.3%	100.0%	98.3%	23,509	54.7%	100.0%	54.7%
Pontotoc County	17,577	99.2%	100.0%	99.2%	20,707	88.5%	100.0%	88.5%
Pottawatomie County	34,893	97.6%	100.0%	97.6%	37,699	82.9%	100.0%	82.9%
Pushmataha County					11,096	26.0%	79.6%	21.3%
Roger Mills County					3,583	12.7%	100.0%	12.7%
Rogers County	44,704	99.9%	100.0%	99.9%	47,745	95.9%	100.0%	95.9%
Seminole County	8,265	90.2%	100.0%	90.2%	15,993	46.3%	100.0%	46.3%

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Sequoyah County	13,232	47.8%	100.0%	47.8%	28,336	29.6%	100.0%	29.6%
Stephens County	23,521	99.9%	100.0%	99.9%	19,622	89.6%	100.0%	89.6%
Texas County	10,049	98.9%	100.0%	98.9%	9,934	76.8%	100.0%	76.8%
Tillman County	3,434	99.4%	100.0%	99.4%	3,816	82.3%	100.0%	82.3%
Tulsa County	616,713	99.3%	100.0%	99.3%	34,808	80.6%	100.0%	80.6%
Wagoner County	47,109	98.6%	100.0%	98.6%	34,173	75.8%	100.0%	75.8%
Washington County	38,789	99.4%	100.0%	99.4%	12,738	69.1%	100.0%	69.1%
Washita County	2,778	99.5%	100.0%	99.5%	8,138	56.5%	100.0%	56.5%
Woods County	5,152	100.0%	100.0%	100.0%	3,641	77.3%	100.0%	77.3%
Woodward County	11,059	20.0%	100.0%	20.0%	9,152	51.8%	100.0%	51.8%
Oregon	**3,345,939**	**98.9%**	**100.0%**	**98.9%**	**871,747**	**79.5%**	**98.0%**	**79.1%**
Baker County	8,768	99.7%	100.0%	99.7%	7,356	35.8%	95.5%	34.7%
Benton County	72,338	100.0%	100.0%	100.0%	20,715	97.8%	99.4%	97.4%
Clackamas County	334,741	98.9%	100.0%	98.9%	83,441	89.0%	99.2%	88.7%
Clatsop County	23,367	100.0%	100.0%	100.0%	16,857	58.0%	99.8%	58.0%
Columbia County	28,591	98.0%	100.0%	98.0%	23,763	59.9%	99.7%	59.9%
Coos County	39,060	99.9%	100.0%	99.9%	25,427	73.9%	97.9%	73.9%
Crook County	11,208	100.0%	100.0%	100.0%	13,195	84.5%	97.1%	84.5%
Curry County	13,658	99.9%	100.0%	99.9%	9,267	85.8%	97.4%	85.1%
Deschutes County	134,697	100.0%	100.0%	100.0%	62,985	92.0%	100.0%	92.0%
Douglas County	63,146	100.0%	100.0%	100.0%	47,831	83.8%	96.4%	83.3%
Gilliam County					1,912	38.0%	99.8%	38.0%
Grant County					7,199	57.7%	88.2%	57.3%
Harney County	4,074	99.8%	100.0%	99.8%	3,319	27.4%	94.8%	27.4%
Hood River County	10,989	100.0%	100.0%	100.0%	12,393	94.3%	100.0%	94.3%
Jackson County	171,311	98.8%	100.0%	98.8%	49,631	71.8%	93.9%	69.8%
Jefferson County	8,328	100.0%	100.0%	100.0%	16,329	95.8%	99.1%	95.8%
Josephine County	46,900	100.0%	100.0%	100.0%	40,586	75.3%	98.7%	75.3%
Klamath County	40,393	100.0%	100.0%	100.0%	27,843	61.4%	99.7%	61.4%
Lake County	1,996	100.0%	100.0%	100.0%	5,873	30.5%	98.6%	30.0%
Lane County	305,896	97.8%	100.0%	97.8%	76,166	79.1%	95.5%	78.2%

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Lincoln County	30,002	99.5%	99.5%	99.1%	19,960	89.3%	96.0%	86.8%
Linn County	83,477	100.0%	100.0%	100.0%	46,272	92.9%	98.3%	92.6%
Malheur County	15,492	100.0%	100.0%	100.0%	15,079	90.2%	99.4%	90.1%
Marion County	293,499	100.0%	100.0%	100.0%	54,319	94.2%	99.0%	93.6%
Morrow County	5,998	87.8%	100.0%	87.8%	5,600	24.2%	99.7%	24.2%
Multnomah County	800,448	98.2%	100.0%	98.2%	12,406	77.2%	100.0%	77.2%
Polk County	64,319	100.0%	100.0%	100.0%	21,765	87.2%	96.7%	86.8%
Sherman County					1,780	50.7%	100.0%	50.7%
Tillamook County	7,722	99.3%	100.0%	99.3%	19,314	88.6%	94.7%	87.5%
Umatilla County	53,842	97.2%	100.0%	97.2%	24,107	83.6%	99.6%	83.6%
Union County	13,797	100.0%	100.0%	100.0%	13,037	78.0%	99.7%	78.0%
Wallowa County					7,208	90.5%	94.1%	88.9%
Wasco County	17,257	99.6%	100.0%	99.6%	9,425	58.5%	99.7%	58.5%
Washington County	560,709	99.2%	100.0%	99.2%	40,871	69.0%	99.4%	69.0%
Wheeler County					1,332	0.0%	74.7%	0.0%
Yamhill County	79,916	97.0%	100.0%	97.0%	27,184	50.3%	99.0%	50.3%
Pennsylvania	**10,071,084**	**98.4%**	**100.0%**	**98.4%**	**2,730,877**	**86.7%**	**99.8%**	**86.6%**
Adams County	47,408	96.8%	100.0%	96.8%	55,600	91.4%	100.0%	91.4%
Allegheny County	1,185,074	99.4%	100.0%	99.4%	30,971	98.8%	100.0%	98.8%
Armstrong County	21,529	99.5%	100.0%	99.5%	43,206	93.4%	99.9%	93.3%
Beaver County	120,584	99.2%	100.0%	99.2%	43,345	95.6%	100.0%	95.6%
Bedford County	7,905	97.1%	100.0%	97.1%	39,983	72.1%	99.0%	71.1%
Berks County	319,613	98.6%	100.0%	98.6%	101,551	96.1%	100.0%	96.1%
Blair County	93,491	89.6%	100.0%	89.6%	28,338	78.1%	99.2%	77.7%
Bradford County	16,163	99.6%	100.0%	99.6%	44,160	65.7%	99.3%	65.5%
Bucks County	572,289	98.5%	100.0%	98.5%	55,981	99.7%	100.0%	99.7%
Butler County	108,638	97.4%	100.0%	97.4%	79,215	94.7%	100.0%	94.7%
Cambria County	87,780	94.2%	100.0%	94.2%	42,412	92.5%	100.0%	92.5%
Cameron County	2,448	99.8%	100.0%	99.8%	1,999	88.7%	83.9%	78.5%
Carbon County	34,660	96.7%	100.0%	96.7%	29,522	98.4%	100.0%	98.4%
Centre County	107,134	99.3%	100.0%	99.3%	55,251	83.2%	99.9%	83.1%

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Chester County	452,997	99.2%	100.0%	99.2%	71,988	97.0%	100.0%	97.0%
Clarion County	7,715	93.2%	100.0%	93.2%	30,723	83.6%	99.5%	83.0%
Clearfield County	35,490	86.5%	100.0%	86.5%	43,765	76.1%	100.0%	76.1%
Clinton County	20,549	99.8%	100.0%	99.8%	18,083	92.8%	99.8%	92.7%
Columbia County	37,453	88.2%	100.0%	88.2%	27,511	68.6%	100.0%	68.6%
Crawford County	28,390	94.5%	100.0%	94.5%	56,239	70.8%	100.0%	70.8%
Cumberland County	194,263	94.7%	100.0%	94.7%	59,106	85.4%	100.0%	85.4%
Dauphin County	240,077	99.1%	100.0%	99.1%	38,222	94.4%	100.0%	94.4%
Delaware County	564,019	99.0%	100.0%	99.0%	2,726	99.4%	100.0%	99.4%
Elk County	12,723	99.6%	100.0%	99.6%	17,187	93.6%	100.0%	93.6%
Erie County	213,265	99.8%	100.0%	99.8%	56,463	76.2%	100.0%	76.2%
Fayette County	66,630	90.0%	100.0%	90.0%	62,644	88.5%	100.0%	88.5%
Forest County					7,247	72.3%	99.6%	72.1%
Franklin County	91,491	98.1%	100.0%	98.1%	63,536	83.2%	99.6%	83.2%
Fulton County					14,530	60.3%	100.0%	60.3%
Greene County	10,815	88.8%	100.0%	88.8%	25,418	77.7%	96.1%	75.7%
Huntingdon County	13,855	97.1%	100.0%	97.1%	31,289	76.4%	99.3%	76.2%
Indiana County	30,687	98.8%	100.0%	98.8%	53,386	71.9%	100.0%	71.9%
Jefferson County	16,172	98.5%	100.0%	98.5%	27,253	84.3%	100.0%	84.3%
Juniata County	4,358	98.0%	100.0%	98.0%	20,405	76.4%	99.3%	76.4%
Lackawanna County	175,116	90.6%	100.0%	90.6%	34,558	83.0%	100.0%	83.0%
Lancaster County	427,130	98.9%	100.0%	98.9%	118,593	88.6%	100.0%	88.6%
Lawrence County	50,398	97.4%	100.0%	97.4%	35,114	94.1%	100.0%	94.1%
Lebanon County	103,074	98.8%	100.0%	98.8%	38,719	94.2%	100.0%	94.2%
Lehigh County	339,183	100.0%	100.0%	100.0%	30,134	98.8%	100.0%	98.8%
Luzerne County	253,604	99.0%	100.0%	99.0%	63,813	89.3%	99.9%	89.1%
Lycoming County	71,014	99.9%	100.0%	99.9%	42,285	88.5%	99.2%	87.9%
McKean County	14,924	97.1%	100.0%	97.1%	25,701	81.1%	99.9%	81.1%
Mercer County	58,660	98.0%	100.0%	98.0%	50,764	83.5%	100.0%	83.5%
Mifflin County	22,950	99.8%	100.0%	99.8%	23,188	92.2%	99.9%	92.1%
Monroe County	105,075	99.8%	100.0%	99.8%	65,195	98.5%	100.0%	98.5%

	Urban Areas				Rural Areas			
County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both
Montgomery County	805,999	99.0%	100.0%	99.0%	24,903	99.3%	100.0%	99.3%
Montour County	8,430	91.8%	100.0%	91.8%	9,800	55.3%	100.0%	55.3%
Northampton County	265,760	100.0%	100.0%	100.0%	39,525	100.0%	100.0%	100.0%
Northumberland County	58,833	93.4%	100.0%	93.4%	32,010	75.9%	100.0%	75.9%
Perry County	5,339	100.0%	100.0%	100.0%	40,933	82.8%	100.0%	82.8%
Philadelphia County	1,584,064	99.1%	100.0%	99.1%				
Pike County	16,401	99.6%	100.0%	99.6%	39,408	98.1%	100.0%	98.1%
Potter County					16,526	69.8%	99.5%	69.6%
Schuylkill County	88,009	95.4%	100.0%	95.4%	53,350	88.4%	100.0%	88.4%
Snyder County	12,950	84.3%	100.0%	84.3%	27,422	74.1%	100.0%	74.1%
Somerset County	18,600	99.6%	100.0%	99.6%	54,847	81.2%	100.0%	81.2%
Sullivan County					6,066	58.1%	97.5%	57.4%
Susquehanna County	6,031	34.0%	100.0%	34.0%	34,297	64.9%	100.0%	64.9%
Tioga County	3,098	100.0%	100.0%	100.0%	37,493	89.1%	99.8%	89.0%
Union County	24,835	98.6%	100.0%	98.6%	20,085	87.5%	100.0%	87.5%
Venango County	22,435	99.7%	100.0%	99.7%	28,233	83.9%	100.0%	83.9%
Warren County	17,258	98.1%	100.0%	98.1%	21,933	57.2%	99.6%	57.2%
Washington County	142,596	98.0%	100.0%	98.0%	64,269	86.7%	100.0%	86.7%
Wayne County	6,196	91.8%	100.0%	91.8%	45,165	61.2%	100.0%	61.2%
Westmoreland County	256,694	98.6%	100.0%	98.6%	92,205	96.6%	100.0%	96.6%
Wyoming County	4,347	97.9%	100.0%	97.9%	22,447	88.1%	99.6%	87.9%
York County	336,416	99.8%	100.0%	99.8%	112,641	99.2%	100.0%	99.2%
Rhode Island	**961,185**	**98.7%**	**100.0%**	**98.7%**	**98,169**	**97.6%**	**100.0%**	**97.6%**
Bristol County	47,920	100.0%	100.0%	100.0%	559	100.0%	100.0%	100.0%
Kent County	151,321	98.5%	100.0%	98.5%	12,969	99.6%	100.0%	99.6%
Newport County	72,105	96.6%	100.0%	96.6%	9,977	95.7%	99.9%	95.6%
Providence County	603,119	98.9%	100.0%	98.9%	35,807	99.3%	100.0%	99.2%
Washington County	86,720	98.7%	100.0%	98.6%	38,857	96.0%	100.0%	96.0%
South Carolina	**3,391,958**	**97.7%**	**100.0%**	**97.7%**	**1,756,600**	**78.7%**	**100.0%**	**78.7%**
Abbeville County	5,015	99.5%	100.0%	99.5%	19,512	95.3%	100.0%	95.3%

	Urban Areas				Rural Areas			
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Aiken County	105,627	77.3%	100.0%	77.3%	65,245	58.6%	100.0%	58.6%
Allendale County	2,784	27.1%	100.0%	27.1%	5,904	33.2%	99.8%	33.2%
Anderson County	124,636	99.7%	100.0%	99.7%	77,919	88.1%	100.0%	88.1%
Bamberg County	5,863	46.1%	100.0%	46.1%	8,203	35.5%	100.0%	35.5%
Barnwell County	3,763	68.9%	100.0%	68.9%	17,103	49.7%	100.0%	49.7%
Beaufort County	149,459	93.8%	100.0%	93.8%	42,656	69.5%	100.0%	69.5%
Berkeley County	149,230	97.5%	100.0%	97.5%	78,626	88.7%	100.0%	88.7%
Calhoun County					14,553	78.5%	100.0%	78.5%
Charleston County	354,430	96.9%	100.0%	96.9%	56,965	81.2%	100.0%	81.2%
Cherokee County	22,233	99.3%	100.0%	99.3%	35,066	79.7%	100.0%	79.7%
Chester County	9,013	98.9%	100.0%	98.9%	23,231	82.4%	100.0%	82.4%
Chesterfield County	11,665	94.7%	100.0%	94.7%	33,985	58.5%	100.0%	58.5%
Clarendon County	4,615	100.0%	100.0%	100.0%	29,130	92.9%	100.0%	92.9%
Colleton County	9,037	99.9%	100.0%	99.9%	28,640	84.5%	100.0%	84.5%
Darlington County	28,157	100.0%	100.0%	100.0%	38,461	80.5%	100.0%	80.5%
Dillon County	9,498	99.3%	100.0%	99.3%	20,981	66.7%	100.0%	66.7%
Dorchester County	124,248	99.9%	100.0%	99.9%	38,547	69.6%	100.0%	69.6%
Edgefield County	7,136	69.9%	100.0%	69.9%	20,123	67.1%	100.0%	67.1%
Fairfield County	4,875	96.9%	100.0%	96.9%	17,472	75.0%	100.0%	75.0%
Florence County	84,342	100.0%	100.0%	100.0%	53,950	87.6%	100.0%	87.6%
Georgetown County	35,596	100.0%	100.0%	100.0%	27,080	74.4%	100.0%	74.4%
Greenville County	449,783	99.4%	100.0%	99.4%	73,737	91.7%	100.0%	91.7%
Greenwood County	41,936	97.5%	100.0%	97.5%	28,875	82.3%	100.0%	82.3%
Hampton County	4,209	97.1%	100.0%	97.1%	15,013	42.0%	100.0%	42.0%
Horry County	239,794	100.0%	100.0%	100.0%	114,285	99.6%	100.0%	99.6%
Jasper County	8,998	69.9%	100.0%	69.9%	21,075	60.2%	100.0%	60.2%
Kershaw County	27,911	99.5%	100.0%	99.5%	38,639	71.6%	100.0%	71.6%
Lancaster County	45,877	99.8%	100.0%	99.8%	52,132	76.5%	100.0%	76.5%
Laurens County	24,108	99.8%	100.0%	99.8%	43,385	86.2%	100.0%	86.2%
Lee County	3,564	100.0%	100.0%	100.0%	13,264	80.7%	100.0%	80.7%
Lexington County	220,407	99.9%	100.0%	99.9%	78,334	88.1%	100.0%	88.1%

	Urban Areas				Rural Areas			
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Marion County	11,970	100.0%	100.0%	100.0%	18,687	52.1%	100.0%	52.1%
Marlboro County	10,266	59.9%	100.0%	59.9%	15,852	27.3%	100.0%	27.3%
McCormick County					9,463	40.1%	99.7%	40.0%
Newberry County	12,330	99.4%	100.0%	99.4%	26,110	73.4%	100.0%	73.4%
Oconee County	27,158	89.5%	100.0%	89.5%	52,388	82.6%	100.0%	82.6%
Orangeburg County	28,721	100.0%	100.0%	100.0%	57,454	47.9%	100.0%	47.9%
Pickens County	79,374	96.1%	100.0%	96.1%	47,503	90.0%	100.0%	90.0%
Richland County	373,638	100.0%	100.0%	100.0%	42,121	76.5%	100.0%	76.5%
Saluda County	3,902	96.7%	100.0%	96.7%	16,571	51.6%	100.0%	51.6%
Spartanburg County	229,596	99.7%	100.0%	99.7%	90,177	86.4%	100.0%	86.4%
Sumter County	72,565	100.0%	100.0%	100.0%	34,153	90.4%	100.0%	90.4%
Union County	9,611	99.8%	100.0%	99.8%	17,705	68.7%	100.0%	68.7%
Williamsburg County	5,628	99.9%	100.0%	99.9%	24,740	78.9%	100.0%	78.9%
York County	209,390	99.9%	100.0%	99.9%	71,585	86.6%	100.0%	86.6%
South Dakota	**485,466**	**99.7%**	**100.0%**	**99.7%**	**399,112**	**89.3%**	**99.8%**	**89.2%**
Aurora County					2,751	73.2%	100.0%	73.2%
Beadle County	12,416	100.0%	100.0%	100.0%	6,037	100.0%	100.0%	100.0%
Bennett County					3,365	90.6%	100.0%	90.6%
Bon Homme County					6,901	82.5%	100.0%	82.5%
Brookings County	22,874	100.0%	100.0%	100.0%	12,203	99.7%	100.0%	99.7%
Brown County	26,216	100.0%	100.0%	100.0%	12,623	100.0%	100.0%	100.0%
Brule County					5,295	100.0%	100.0%	100.0%
Buffalo County					1,962	100.0%	100.0%	100.0%
Butte County	5,027	100.0%	100.0%	100.0%	5,401	98.8%	100.0%	98.8%
Campbell County					1,376	100.0%	100.0%	100.0%
Charles Mix County					9,292	55.1%	100.0%	55.1%
Clark County					3,736	99.1%	100.0%	99.1%
Clay County	10,272	98.7%	100.0%	98.7%	3,798	80.9%	100.0%	80.9%
Codington County	21,323	100.0%	100.0%	100.0%	6,686	93.8%	100.0%	93.8%
Corson County					4,086	83.4%	91.8%	76.8%
Custer County					8,972	63.5%	99.9%	63.5%

	Urban Areas				Rural Areas			
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Davison County	14,957	100.0%	100.0%	100.0%	4,818	99.9%	100.0%	99.9%
Day County					5,424	99.8%	100.0%	99.8%
Deuel County					4,351	99.9%	100.0%	99.9%
Dewey County	1,978	100.0%	100.0%	100.0%	3,914	91.9%	100.0%	91.9%
Douglas County					2,921	83.2%	100.0%	83.2%
Edmunds County					3,829	100.0%	100.0%	100.0%
Fall River County	3,237	99.8%	100.0%	99.8%	3,476	83.5%	99.5%	83.5%
Faulk County					2,299	100.0%	100.0%	100.0%
Grant County	2,998	100.0%	100.0%	100.0%	4,054	61.1%	100.0%	61.1%
Gregory County					4,185	91.8%	99.7%	91.5%
Haakon County					1,899	92.4%	99.5%	91.9%
Hamlin County					6,164	100.0%	100.0%	100.0%
Hand County					3,191	100.0%	100.0%	100.0%
Hanson County					3,451	100.0%	100.0%	100.0%
Harding County					1,297	100.0%	99.7%	99.7%
Hughes County	12,772	100.0%	100.0%	100.0%	4,754	99.9%	100.0%	99.9%
Hutchinson County					7,291	99.7%	100.0%	99.7%
Hyde County					1,301	100.0%	100.0%	100.0%
Jackson County					3,343	74.1%	100.0%	74.1%
Jerauld County					2,013	100.0%	100.0%	100.0%
Jones County					903	50.6%	100.0%	50.6%
Kingsbury County					4,939	100.0%	100.0%	100.0%
Lake County	6,335	100.0%	100.0%	100.0%	6,462	100.0%	100.0%	100.0%
Lawrence County	15,484	100.0%	100.0%	100.0%	10,360	85.8%	99.8%	85.8%
Lincoln County	36,552	99.0%	100.0%	99.0%	24,538	90.5%	100.0%	90.5%
Lyman County					3,781	93.4%	100.0%	93.4%
Marshall County					4,935	98.3%	100.0%	98.3%
McCook County					5,583	81.8%	100.0%	81.8%
McPherson County					2,379	100.0%	100.0%	100.0%
Meade County	16,510	100.0%	100.0%	100.0%	11,822	100.0%	99.7%	99.6%
Mellette County					2,061	58.0%	100.0%	58.0%

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Miner County					2,216	100.0%	100.0%	100.0%
Minnehaha County	160,033	99.3%	100.0%	99.3%	33,097	94.7%	100.0%	94.7%
Moody County					6,576	97.1%	100.0%	97.1%
Oglala Lakota County	2,750	99.7%	100.0%	99.7%	11,405	66.0%	100.0%	66.0%
Pennington County	84,996	100.0%	100.0%	100.0%	28,778	82.2%	99.1%	82.2%
Perkins County					2,865	98.1%	99.5%	97.6%
Potter County					2,153	100.0%	100.0%	100.0%
Roberts County					10,394	88.2%	100.0%	88.2%
Sanborn County					2,344	100.0%	100.0%	100.0%
Spink County					6,376	100.0%	100.0%	100.0%
Stanley County	1,709	100.0%	100.0%	100.0%	1,389	96.2%	100.0%	96.2%
Sully County					1,391	100.0%	100.0%	100.0%
Todd County					10,177	62.6%	100.0%	62.6%
Tripp County	2,672	100.0%	100.0%	100.0%	2,769	80.0%	100.0%	80.0%
Turner County					8,384	86.3%	100.0%	86.3%
Union County	5,782	99.2%	100.0%	99.2%	10,144	90.6%	100.0%	90.6%
Walworth County	3,213	100.0%	100.0%	100.0%	2,222	100.0%	100.0%	100.0%
Yankton County	14,639	100.0%	100.0%	100.0%	8,175	79.6%	100.0%	79.6%
Ziebach County	721	100.0%	100.0%	100.0%	2,035	100.0%	99.2%	99.2%
Tennessee	**4,513,134**	**98.6%**	**100.0%**	**98.6%**	**2,315,707**	**84.0%**	**99.5%**	**83.6%**
Anderson County	49,634	97.6%	100.0%	97.6%	27,343	95.7%	96.7%	92.4%
Bedford County	21,336	100.0%	100.0%	100.0%	28,375	93.1%	100.0%	93.1%
Benton County	3,411	99.9%	100.0%	99.9%	12,749	64.5%	100.0%	64.4%
Bledsoe County					15,064	53.8%	99.5%	53.6%
Blount County	88,639	99.9%	100.0%	99.9%	44,447	95.6%	99.1%	94.9%
Bradley County	72,195	99.8%	100.0%	99.8%	35,912	93.8%	100.0%	93.8%
Campbell County	17,982	98.5%	100.0%	98.5%	21,860	75.3%	97.6%	74.5%
Cannon County	2,683	100.0%	100.0%	100.0%	11,993	99.6%	100.0%	99.6%
Carroll County	4,343	100.0%	100.0%	100.0%	23,424	65.9%	100.0%	65.9%
Carter County	33,419	99.8%	100.0%	99.8%	22,972	93.2%	98.2%	91.9%
Cheatham County	6,912	99.4%	100.0%	99.4%	33,754	92.6%	100.0%	92.6%

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Chester County	5,753	100.0%	100.0%	100.0%	11,544	35.0%	100.0%	35.0%
Claiborne County	8,773	98.4%	100.0%	98.4%	23,186	94.7%	100.0%	94.7%
Clay County					7,615	97.9%	89.4%	87.3%
Cocke County	11,577	99.9%	100.0%	99.9%	24,427	72.0%	94.6%	71.7%
Coffee County	29,323	99.9%	100.0%	99.9%	27,194	88.7%	100.0%	88.7%
Crockett County	4,375	100.0%	100.0%	100.0%	9,855	86.2%	100.0%	86.2%
Cumberland County	23,103	98.4%	100.0%	98.4%	37,416	48.5%	99.9%	48.5%
Davidson County	668,768	97.6%	100.0%	97.6%	25,376	97.3%	100.0%	97.3%
DeKalb County	4,241	100.0%	100.0%	100.0%	16,248	99.4%	100.0%	99.4%
Decatur County					11,663	74.7%	100.0%	74.7%
Dickson County	17,194	97.9%	100.0%	97.9%	36,754	70.3%	100.0%	70.3%
Dyer County	21,074	98.9%	100.0%	98.9%	16,085	83.4%	100.0%	83.4%
Fayette County	8,359	99.6%	100.0%	99.6%	32,773	76.9%	100.0%	76.9%
Fentress County					18,522	98.9%	98.9%	97.8%
Franklin County	12,631	100.0%	100.0%	100.0%	29,574	96.5%	98.4%	95.7%
Gibson County	25,061	99.6%	100.0%	99.6%	24,072	90.9%	100.0%	90.9%
Giles County	7,633	100.0%	100.0%	100.0%	21,831	83.4%	100.0%	83.4%
Grainger County					23,320	67.6%	100.0%	67.6%
Greene County	23,557	98.0%	100.0%	98.0%	45,512	95.3%	100.0%	95.3%
Grundy County					13,427	87.5%	99.6%	87.1%
Hamblen County	50,402	100.0%	100.0%	100.0%	14,532	100.0%	100.0%	100.0%
Hamilton County	328,942	99.0%	100.0%	99.0%	38,857	95.9%	100.0%	95.9%
Hancock County					6,619	70.9%	96.1%	67.4%
Hardeman County	5,094	97.7%	100.0%	97.7%	19,956	45.9%	100.0%	45.9%
Hardin County	7,882	99.9%	100.0%	99.9%	17,770	48.0%	100.0%	48.0%
Hawkins County	23,736	99.7%	100.0%	99.7%	33,049	70.0%	99.7%	70.0%
Haywood County	8,475	100.0%	100.0%	100.0%	8,829	69.0%	100.0%	69.0%
Henderson County	6,553	100.0%	100.0%	100.0%	21,563	64.6%	100.0%	64.6%
Henry County	10,614	99.9%	100.0%	99.9%	21,731	80.0%	100.0%	80.0%
Hickman County					25,178	78.9%	99.5%	78.8%
Houston County					8,201	83.8%	99.8%	83.7%

	Urban Areas				Rural Areas			
County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both
Humphreys County	3,214	100.0%	100.0%	100.0%	15,368	69.0%	100.0%	69.0%
Jackson County					11,786	92.8%	92.7%	86.1%
Jefferson County	21,413	98.3%	100.0%	98.3%	33,082	71.8%	100.0%	71.8%
Johnson County	2,654	99.8%	100.0%	99.8%	15,134	92.6%	98.5%	91.9%
Knox County	416,752	98.6%	100.0%	98.6%	53,557	96.3%	100.0%	96.3%
Lake County					7,016	100.0%	100.0%	100.0%
Lauderdale County	10,592	100.0%	100.0%	100.0%	15,041	71.4%	100.0%	71.4%
Lawrence County	10,478	100.0%	100.0%	100.0%	33,662	92.7%	99.9%	92.7%
Lewis County	3,600	100.0%	100.0%	100.0%	8,485	85.8%	99.7%	85.5%
Lincoln County	9,375	100.0%	100.0%	100.0%	24,984	94.9%	100.0%	94.9%
Loudon County	31,069	99.5%	100.0%	99.5%	22,997	84.7%	100.0%	84.7%
Macon County	4,897	100.0%	100.0%	100.0%	19,705	98.5%	97.5%	96.0%
Madison County	72,173	99.9%	100.0%	99.9%	25,811	84.0%	100.0%	84.0%
Marion County	6,588	100.0%	100.0%	100.0%	22,319	88.4%	99.0%	88.1%
Marshall County	11,142	99.9%	100.0%	99.9%	23,231	81.8%	100.0%	81.8%
Maury County	53,470	100.0%	100.0%	100.0%	42,912	83.3%	100.0%	83.3%
McMinn County	21,260	98.9%	100.0%	98.9%	32,534	68.8%	99.9%	68.8%
McNairy County	3,724	98.0%	100.0%	98.0%	21,970	43.0%	100.0%	43.0%
Meigs County					12,421	56.7%	100.0%	56.7%
Monroe County	10,985	99.0%	100.0%	99.0%	35,560	83.0%	95.9%	80.8%
Montgomery County	161,327	96.7%	100.0%	96.7%	47,662	76.9%	100.0%	76.9%
Moore County	8	100.0%	100.0%	100.0%	6,480	98.5%	100.0%	98.5%
Morgan County	27	100.0%	100.0%	100.0%	21,376	100.0%	98.9%	98.9%
Obion County	11,131	99.0%	100.0%	99.0%	18,938	66.1%	100.0%	66.1%
Overton County	3,518	99.6%	100.0%	99.6%	18,723	88.1%	99.9%	88.0%
Perry County					8,076	79.9%	99.9%	79.9%
Pickett County					5,048	96.2%	97.7%	94.0%
Polk County					16,832	81.5%	92.6%	75.6%
Putnam County	50,978	99.2%	100.0%	99.2%	29,267	88.5%	100.0%	88.5%
Rhea County	10,382	100.0%	100.0%	100.0%	22,785	85.6%	99.9%	85.6%
Roane County	25,630	99.2%	100.0%	99.2%	27,752	87.5%	100.0%	87.5%

	Urban Areas				Rural Areas			
County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both
Robertson County	32,808	98.9%	100.0%	98.9%	38,991	70.7%	100.0%	70.7%
Rutherford County	267,706	97.6%	100.0%	97.6%	64,565	91.5%	100.0%	91.5%
Scott County	4,283	100.0%	100.0%	100.0%	17,785	100.0%	97.3%	97.3%
Sequatchie County	3,857	86.8%	100.0%	86.8%	11,169	68.1%	99.3%	67.4%
Sevier County	41,117	99.6%	100.0%	99.6%	57,132	91.8%	99.9%	91.8%
Shelby County	910,714	98.9%	100.0%	98.9%	26,451	94.7%	100.0%	94.7%
Smith County	3,391	100.0%	100.0%	100.0%	16,765	91.3%	95.2%	86.5%
Stewart County					13,715	65.2%	100.0%	65.2%
Sullivan County	117,713	100.0%	100.0%	100.0%	40,631	100.0%	100.0%	100.0%
Sumner County	133,161	98.5%	100.0%	98.5%	58,083	96.4%	99.8%	96.2%
Tipton County	27,607	99.5%	100.0%	99.5%	33,992	92.8%	100.0%	92.8%
Trousdale County					11,283	86.0%	100.0%	86.0%
Unicoi County	9,982	99.9%	100.0%	99.9%	7,901	97.6%	99.1%	96.9%
Union County					19,971	79.6%	100.0%	79.6%
Van Buren County					5,872	70.8%	100.0%	70.8%
Warren County	15,659	99.7%	100.0%	99.7%	25,617	84.9%	100.0%	84.9%
Washington County	94,748	99.1%	100.0%	99.1%	34,627	93.8%	100.0%	93.8%
Wayne County					16,672	84.4%	99.7%	84.2%
Weakley County	9,874	96.5%	100.0%	96.5%	23,454	59.4%	100.0%	59.4%
White County	5,940	100.0%	100.0%	100.0%	21,405	92.9%	100.0%	92.9%
Williamson County	181,250	97.2%	100.0%	97.2%	57,154	83.3%	100.0%	83.3%
Wilson County	83,263	99.6%	100.0%	99.6%	61,386	92.8%	100.0%	92.8%
Texas	**24,054,057**	**98.2%**	**100.0%**	**98.2%**	**4,923,053**	**83.9%**	**99.9%**	**83.9%**
Anderson County	19,102	86.0%	100.0%	86.0%	38,633	31.7%	99.7%	31.4%
Andrews County	12,761	100.0%	100.0%	100.0%	5,944	65.1%	100.0%	65.1%
Angelina County	49,054	95.3%	100.0%	95.3%	37,661	84.1%	100.0%	84.1%
Aransas County	16,796	99.8%	100.0%	99.8%	6,714	95.5%	100.0%	95.5%
Archer County	827	100.0%	100.0%	100.0%	7,726	100.0%	100.0%	100.0%
Armstrong County					1,887	72.0%	98.8%	70.9%
Atascosa County	19,013	100.0%	100.0%	100.0%	32,138	100.0%	100.0%	100.0%
Austin County	9,742	99.8%	100.0%	99.8%	20,290	81.0%	100.0%	81.0%

	Urban Areas				Rural Areas			
County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both
Bailey County	4,678	97.2%	100.0%	97.2%	2,322	33.9%	100.0%	33.9%
Bandera County					23,112	97.1%	99.6%	97.0%
Bastrop County	30,360	100.0%	100.0%	100.0%	58,357	100.0%	100.0%	100.0%
Baylor County					3,509	99.7%	100.0%	99.7%
Bee County	18,217	100.0%	100.0%	100.0%	14,348	97.0%	100.0%	97.0%
Bell County	293,248	99.8%	100.0%	99.8%	69,673	82.2%	100.0%	82.2%
Bexar County	1,882,207	100.0%	100.0%	100.0%	121,341	99.5%	100.0%	99.5%
Blanco County					11,931	70.9%	100.0%	70.9%
Borden County					654	34.4%	100.0%	34.4%
Bosque County	3,424	100.0%	100.0%	100.0%	15,261	99.3%	100.0%	99.3%
Bowie County	60,069	99.0%	100.0%	99.0%	33,176	80.2%	100.0%	80.2%
Brazoria County	273,484	94.8%	100.0%	94.8%	100,777	63.2%	100.0%	63.2%
Brazos County	192,278	97.2%	100.0%	97.2%	36,933	89.4%	100.0%	89.4%
Brewster County	5,762	97.3%	100.0%	97.3%	3,441	44.0%	63.8%	28.0%
Briscoe County					1,546	84.7%	100.0%	84.7%
Brooks County	4,777	100.0%	100.0%	100.0%	2,316	99.3%	100.0%	99.3%
Brown County	22,112	100.0%	100.0%	100.0%	15,752	100.0%	100.0%	100.0%
Burleson County	4,052	100.0%	100.0%	100.0%	14,391	100.0%	100.0%	100.0%
Burnet County	20,218	99.1%	100.0%	99.1%	27,937	83.4%	100.0%	83.4%
Caldwell County	23,205	100.0%	100.0%	100.0%	20,452	100.0%	100.0%	100.0%
Calhoun County	11,412	99.3%	100.0%	99.3%	9,878	72.9%	100.0%	72.9%
Callahan County	3,753	100.0%	100.0%	100.0%	10,190	94.5%	100.0%	94.5%
Cameron County	383,561	100.0%	99.9%	99.9%	39,602	100.0%	100.0%	100.0%
Camp County	4,889	91.4%	100.0%	91.4%	8,205	22.9%	100.0%	22.9%
Carson County	301	100.0%	100.0%	100.0%	5,625	99.5%	100.0%	99.5%
Cass County	7,525	97.2%	100.0%	97.2%	22,501	41.3%	100.0%	41.3%
Castro County	3,655	74.6%	100.0%	74.6%	3,875	86.4%	100.0%	86.4%
Chambers County	21,344	97.9%	100.0%	97.9%	22,492	91.9%	100.0%	91.9%
Cherokee County	18,973	96.5%	100.0%	96.5%	33,673	54.0%	100.0%	54.0%
Childress County	4,721	99.9%	100.0%	99.9%	2,585	80.9%	100.0%	80.9%
Clay County	2,714	100.0%	100.0%	100.0%	7,757	99.4%	100.0%	99.4%

	Urban Areas				Rural Areas			
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Cochran County					2,853	75.2%	100.0%	75.2%
Coke County					3,387	85.2%	99.8%	85.2%
Coleman County	3,827	0.7%	100.0%	0.7%	4,348	63.8%	100.0%	63.8%
Collin County	942,603	99.6%	100.0%	99.6%	92,082	95.9%	100.0%	95.9%
Collingsworth County					2,920	96.8%	100.0%	96.8%
Colorado County	7,742	100.0%	100.0%	100.0%	13,751	71.3%	100.0%	71.3%
Comal County	74,581	100.0%	100.0%	100.0%	81,618	98.3%	100.0%	98.3%
Comanche County	3,814	100.0%	100.0%	100.0%	9,720	87.9%	100.0%	87.9%
Concho County					2,726	83.5%	100.0%	83.5%
Cooke County	16,034	100.0%	100.0%	100.0%	25,223	98.7%	100.0%	98.7%
Coryell County	59,839	100.0%	100.0%	100.0%	16,111	95.8%	100.0%	95.8%
Cottle County					1,389	89.9%	100.0%	89.9%
Crane County	3,745	12.6%	100.0%	12.6%	1,052	21.9%	100.0%	21.9%
Crockett County	2,677	40.0%	100.0%	40.0%	787	25.0%	98.6%	24.9%
Crosby County					5,737	87.6%	100.0%	87.6%
Culberson County					2,171	91.9%	100.0%	91.9%
Dallam County	5,177	99.0%	100.0%	99.0%	2,109	88.3%	100.0%	88.3%
Dallas County	2,609,211	99.9%	100.0%	99.9%	26,305	97.0%	100.0%	97.0%
Dawson County	10,149	100.0%	100.0%	100.0%	2,579	97.0%	100.0%	97.0%
DeWitt County	9,587	100.0%	100.0%	100.0%	10,573	79.8%	100.0%	79.8%
Deaf Smith County	15,063	99.9%	100.0%	99.9%	3,483	62.6%	100.0%	62.6%
Delta County					5,331	85.4%	100.0%	85.4%
Denton County	769,501	99.7%	100.0%	99.7%	117,691	99.6%	100.0%	99.6%
Dickens County					2,211	95.9%	100.0%	95.9%
Dimmit County	5,444	100.0%	100.0%	100.0%	4,680	54.0%	100.0%	54.0%
Donley County					3,278	52.7%	100.0%	52.7%
Duval County	3,420	100.0%	100.0%	100.0%	7,737	65.4%	100.0%	65.4%
Eastland County	7,123	100.0%	100.0%	100.0%	11,237	100.0%	100.0%	100.0%
Ector County	139,846	99.7%	100.0%	99.7%	26,376	70.4%	100.0%	70.4%
Edwards County					1,932	46.2%	99.1%	46.2%
El Paso County	804,409	99.6%	100.0%	99.6%	34,829	60.6%	100.0%	60.6%

	Urban Areas				Rural Areas			
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Ellis County	115,560	100.0%	100.0%	100.0%	69,266	98.9%	100.0%	98.9%
Erath County	20,823	100.0%	100.0%	100.0%	21,875	100.0%	100.0%	100.0%
Falls County	5,425	100.0%	100.0%	100.0%	11,872	91.3%	100.0%	91.3%
Fannin County	9,878	99.9%	100.0%	99.9%	25,634	83.9%	100.0%	83.9%
Fayette County	8,120	99.2%	100.0%	99.2%	17,226	89.0%	100.0%	89.0%
Fisher County					3,830	7.9%	100.0%	7.9%
Floyd County	2,590	89.7%	100.0%	89.7%	3,122	67.9%	100.0%	67.9%
Foard County					1,155	99.4%	100.0%	99.4%
Fort Bend County	713,807	96.1%	100.0%	96.1%	97,863	85.8%	100.0%	85.8%
Franklin County	3,262	96.8%	100.0%	96.8%	7,463	66.7%	100.0%	66.7%
Freestone County	6,565	85.7%	100.0%	85.7%	13,152	78.5%	100.0%	78.5%
Frio County	13,675	100.0%	100.0%	100.0%	6,630	97.8%	100.0%	97.8%
Gaines County	6,785	100.0%	100.0%	100.0%	14,706	96.7%	100.0%	96.7%
Galveston County	313,053	96.1%	100.0%	96.1%	29,086	70.5%	99.3%	70.5%
Garza County	4,595	100.0%	100.0%	100.0%	1,634	66.6%	100.0%	66.6%
Gillespie County	11,424	100.0%	100.0%	100.0%	15,564	96.4%	100.0%	96.4%
Glasscock County					1,409	73.6%	100.0%	73.6%
Goliad County					7,658	65.6%	100.0%	65.6%
Gonzales County	6,968	100.0%	100.0%	100.0%	13,869	99.9%	100.0%	99.9%
Gray County	17,678	100.0%	100.0%	100.0%	4,208	78.3%	100.0%	78.3%
Grayson County	73,550	100.0%	100.0%	100.0%	62,655	99.7%	100.0%	99.7%
Gregg County	106,648	95.9%	100.0%	95.9%	17,297	74.3%	100.0%	74.3%
Grimes County	8,512	98.3%	100.0%	98.3%	20,368	72.5%	100.0%	72.5%
Guadalupe County	113,745	100.0%	100.0%	100.0%	53,101	100.0%	100.0%	100.0%
Hale County	24,942	99.8%	100.0%	99.8%	8,464	78.8%	100.0%	78.8%
Hall County					2,964	65.5%	100.0%	65.5%
Hamilton County	2,806	100.0%	100.0%	100.0%	5,655	90.7%	100.0%	90.7%
Hansford County	3,118	100.0%	100.0%	100.0%	2,281	81.4%	100.0%	81.4%
Hardeman County					3,933	98.8%	100.0%	98.8%
Hardin County	27,000	97.4%	100.0%	97.4%	30,602	67.7%	100.0%	67.7%
Harris County	4,631,492	94.7%	100.0%	94.7%	81,831	92.2%	100.0%	92.2%

	Urban Areas				Rural Areas			
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Harrison County	29,065	99.6%	100.0%	99.6%	37,488	68.8%	100.0%	68.8%
Hartley County	2,303	99.8%	100.0%	99.8%	3,273	82.0%	100.0%	82.0%
Haskell County	2,649	100.0%	100.0%	100.0%	3,009	94.7%	100.0%	94.7%
Hays County	141,701	100.0%	100.0%	100.0%	88,482	92.6%	100.0%	92.6%
Hemphill County	2,473	0.0%	100.0%	0.0%	1,346	26.6%	99.9%	26.6%
Henderson County	32,251	89.4%	100.0%	89.4%	50,486	51.6%	100.0%	51.6%
Hidalgo County	810,682	100.0%	100.0%	100.0%	58,025	96.8%	100.0%	96.8%
Hill County	8,231	100.0%	100.0%	100.0%	28,418	99.9%	100.0%	99.9%
Hockley County	13,258	100.0%	100.0%	100.0%	9,763	93.5%	100.0%	93.5%
Hood County	38,412	100.0%	100.0%	100.0%	23,231	100.0%	100.0%	100.0%
Hopkins County	14,582	100.0%	100.0%	100.0%	22,499	63.8%	100.0%	63.8%
Houston County	5,580	98.1%	100.0%	98.1%	17,388	59.6%	99.1%	59.4%
Howard County	27,723	91.3%	100.0%	91.3%	8,941	65.5%	100.0%	65.5%
Hudspeth County					4,886	61.9%	99.2%	61.5%
Hunt County	39,763	100.0%	100.0%	100.0%	58,827	94.5%	100.0%	94.5%
Hutchinson County	16,227	99.8%	100.0%	99.8%	4,711	97.8%	100.0%	97.8%
Irion County					1,536	81.2%	100.0%	81.2%
Jack County	4,051	100.0%	100.0%	100.0%	4,884	99.8%	100.0%	99.8%
Jackson County	5,410	98.6%	100.0%	98.6%	9,350	60.3%	100.0%	60.3%
Jasper County	7,607	98.9%	100.0%	98.9%	27,922	18.1%	100.0%	18.1%
Jeff Davis County					2,274	48.8%	92.5%	47.4%
Jefferson County	229,167	98.0%	100.0%	98.0%	22,398	63.4%	100.0%	63.4%
Jim Hogg County	4,055	100.0%	100.0%	100.0%	1,145	89.2%	100.0%	89.2%
Jim Wells County	23,713	100.0%	100.0%	100.0%	16,769	100.0%	100.0%	100.0%
Johnson County	103,990	100.0%	100.0%	100.0%	71,824	100.0%	100.0%	100.0%
Jones County	3,047	90.2%	100.0%	90.2%	17,036	58.1%	100.0%	58.1%
Karnes County	9,132	100.0%	100.0%	100.0%	6,469	100.0%	100.0%	100.0%
Kaufman County	59,130	98.0%	100.0%	98.0%	77,013	87.1%	100.0%	87.1%
Kendall County	16,284	99.9%	100.0%	99.9%	31,146	89.8%	100.0%	89.8%
Kenedy County					404	23.3%	100.0%	23.3%
Kent County					762	82.4%	100.0%	82.4%

	Urban Areas				Rural Areas			
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Kerr County	29,707	99.9%	100.0%	99.9%	22,698	92.9%	100.0%	92.9%
Kimble County	2,382	96.5%	100.0%	96.5%	1,955	59.3%	100.0%	59.3%
King County					272	48.5%	99.6%	48.5%
Kinney County	2,721	0.0%	100.0%	0.0%	946	8.6%	99.6%	8.1%
Kleberg County	24,499	100.0%	100.0%	100.0%	6,181	86.2%	100.0%	86.2%
Knox County					3,664	99.9%	100.0%	99.9%
La Salle County	3,678	100.0%	100.0%	100.0%	3,842	48.4%	100.0%	48.4%
Lamar County	26,053	100.0%	100.0%	100.0%	23,675	99.8%	100.0%	99.8%
Lamb County	5,082	95.0%	100.0%	95.0%	7,811	89.1%	100.0%	89.1%
Lampasas County	6,609	99.3%	100.0%	99.3%	14,819	89.7%	100.0%	89.7%
Lavaca County	3,621	100.0%	100.0%	100.0%	16,533	89.3%	100.0%	89.3%
Lee County	5,062	100.0%	100.0%	100.0%	12,082	100.0%	100.0%	100.0%
Leon County					17,270	61.9%	98.3%	60.6%
Liberty County	30,296	77.7%	100.0%	77.7%	57,922	66.3%	100.0%	66.3%
Limestone County	10,443	99.4%	100.0%	99.4%	12,994	81.0%	100.0%	81.0%
Lipscomb County					3,233	74.2%	100.0%	74.2%
Live Oak County					12,207	100.0%	100.0%	100.0%
Llano County	11,077	95.6%	100.0%	95.6%	10,718	88.0%	100.0%	88.0%
Loving County					169	30.2%	100.0%	30.2%
Lubbock County	268,679	99.6%	100.0%	99.6%	41,890	96.4%	100.0%	96.4%
Lynn County	2,493	100.0%	100.0%	100.0%	3,458	99.2%	100.0%	99.2%
Madison County	4,537	79.8%	100.0%	79.8%	9,747	29.3%	100.0%	29.3%
Marion County					9,854	59.9%	100.0%	59.9%
Martin County					5,771	85.9%	100.0%	85.9%
Mason County					4,274	99.9%	100.0%	99.8%
Matagorda County	21,845	98.0%	100.0%	98.0%	14,798	53.2%	100.0%	53.2%
Maverick County	50,394	100.0%	100.0%	100.0%	8,328	54.3%	100.0%	54.3%
McCulloch County	5,064	100.0%	100.0%	100.0%	2,920	100.0%	100.0%	100.0%
McLennan County	193,236	100.0%	100.0%	100.0%	63,385	100.0%	100.0%	100.0%
McMullen County					743	98.3%	100.0%	98.3%
Medina County	18,438	100.0%	100.0%	100.0%	33,146	99.6%	100.0%	99.6%

	Urban Areas				Rural Areas			
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Menard County					2,138	91.0%	100.0%	91.0%
Midland County	148,088	99.6%	100.0%	99.6%	28,744	96.6%	100.0%	96.6%
Milam County	10,438	100.0%	100.0%	100.0%	14,385	100.0%	100.0%	100.0%
Mills County					4,873	88.1%	100.0%	88.1%
Mitchell County	4,917	99.9%	100.0%	99.9%	3,628	80.9%	99.9%	80.9%
Montague County	7,821	100.0%	100.0%	100.0%	11,775	98.0%	100.0%	98.0%
Montgomery County	449,801	96.6%	100.0%	96.6%	157,585	86.2%	100.0%	86.2%
Moore County	16,849	100.0%	100.0%	100.0%	4,091	96.1%	100.0%	96.1%
Morris County	2,767	96.2%	100.0%	96.2%	9,621	61.6%	100.0%	61.6%
Motley County					1,200	89.7%	100.0%	89.7%
Nacogdoches County	34,104	87.1%	100.0%	87.1%	31,100	42.0%	100.0%	42.0%
Navarro County	23,011	100.0%	100.0%	100.0%	27,102	96.5%	100.0%	96.5%
Newton County					13,595	30.1%	99.9%	30.1%
Nolan County	9,813	94.9%	100.0%	94.9%	4,901	35.1%	100.0%	35.1%
Nueces County	334,222	99.8%	100.0%	99.8%	28,072	95.3%	100.0%	95.3%
Ochiltree County	8,105	100.0%	100.0%	100.0%	1,731	33.4%	100.0%	33.4%
Oldham County					2,112	75.6%	100.0%	75.6%
Orange County	54,231	99.4%	100.0%	99.4%	29,165	71.9%	100.0%	71.9%
Palo Pinto County	14,031	100.0%	100.0%	100.0%	15,158	100.0%	100.0%	100.0%
Panola County	6,045	99.8%	100.0%	99.8%	17,149	46.5%	100.0%	46.5%
Parker County	59,690	100.0%	100.0%	100.0%	83,188	100.0%	100.0%	100.0%
Parmer County	3,587	76.6%	100.0%	76.6%	6,018	60.8%	100.0%	60.8%
Pecos County	9,211	94.3%	100.0%	94.3%	6,612	58.0%	99.9%	58.0%
Polk County	11,022	97.4%	100.0%	97.4%	40,331	72.2%	100.0%	72.2%
Potter County	106,249	100.0%	100.0%	100.0%	11,166	94.6%	100.0%	94.6%
Presidio County	3,755	22.9%	100.0%	22.9%	2,949	41.4%	92.1%	40.3%
Rains County	808	100.0%	100.0%	100.0%	11,705	97.2%	100.0%	97.2%
Randall County	112,704	99.8%	100.0%	99.8%	25,005	90.5%	100.0%	90.5%
Reagan County	2,873	98.8%	100.0%	98.8%	976	36.7%	99.8%	36.7%
Real County					3,452	69.2%	95.5%	66.2%
Red River County	2,773	100.0%	100.0%	100.0%	9,250	83.2%	100.0%	83.2%

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Reeves County	12,149	100.0%	100.0%	100.0%	3,827	73.0%	100.0%	73.0%
Refugio County	2,770	100.0%	100.0%	100.0%	4,178	59.1%	100.0%	59.1%
Roberts County					854	75.8%	100.0%	75.8%
Robertson County	4,056	96.0%	100.0%	96.0%	13,018	90.6%	100.0%	90.6%
Rockwall County	81,796	99.8%	100.0%	99.8%	23,086	98.7%	100.0%	98.7%
Runnels County	5,901	99.9%	100.0%	99.9%	4,363	85.0%	100.0%	85.0%
Rusk County	18,026	97.6%	100.0%	97.6%	36,380	65.9%	100.0%	65.9%
Sabine County					10,542	69.3%	99.9%	69.2%
San Augustine County					8,237	23.4%	99.7%	23.1%
San Jacinto County					28,859	80.6%	100.0%	80.6%
San Patricio County	52,612	99.5%	100.0%	99.5%	14,118	98.9%	100.0%	98.9%
San Saba County	2,801	100.0%	100.0%	100.0%	3,254	63.7%	100.0%	63.7%
Schleicher County					2,793	21.8%	100.0%	21.8%
Scurry County	11,162	92.7%	100.0%	92.7%	5,541	27.4%	100.0%	27.4%
Shackelford County					3,265	24.4%	100.0%	24.4%
Shelby County	4,954	20.3%	100.0%	20.3%	20,320	27.6%	100.0%	27.6%
Sherman County					3,022	58.9%	100.0%	58.9%
Smith County	156,158	96.2%	100.0%	96.2%	76,587	69.5%	100.0%	69.5%
Somervell County					9,128	100.0%	100.0%	100.0%
Starr County	47,640	100.0%	100.0%	100.0%	16,993	85.6%	100.0%	85.6%
Stephens County	5,590	100.0%	100.0%	100.0%	3,776	99.9%	100.0%	99.9%
Sterling County					1,291	40.8%	99.7%	40.8%
Stonewall County					1,350	88.2%	100.0%	88.2%
Sutton County	2,778	84.5%	100.0%	84.5%	998	7.9%	99.3%	7.9%
Swisher County	4,322	91.1%	100.0%	91.1%	3,075	83.4%	100.0%	83.4%
Tarrant County	2,050,734	99.9%	100.0%	99.9%	34,190	99.6%	100.0%	99.6%
Taylor County	113,793	96.9%	100.0%	96.9%	24,241	91.1%	100.0%	91.1%
Terrell County					776	81.8%	97.9%	81.3%
Terry County	9,018	100.0%	100.0%	100.0%	3,319	98.7%	100.0%	98.7%
Throckmorton County					1,501	74.0%	100.0%	74.0%
Titus County	16,029	94.8%	100.0%	94.8%	16,721	30.0%	100.0%	30.0%

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Tom Green County	96,485	97.4%	100.0%	97.4%	22,715	85.3%	100.0%	85.3%
Travis County	1,168,381	99.9%	100.0%	99.9%	105,557	98.4%	100.0%	98.4%
Trinity County	3,349	83.7%	100.0%	83.7%	11,302	70.7%	100.0%	70.7%
Tyler County	4,680	99.4%	100.0%	99.4%	16,992	24.7%	100.0%	24.7%
Upshur County	8,506	95.7%	100.0%	95.7%	33,243	91.8%	100.0%	91.8%
Upton County					3,657	10.8%	100.0%	10.8%
Uvalde County	17,827	100.0%	100.0%	100.0%	8,914	99.2%	99.9%	99.1%
Val Verde County	43,587	100.0%	100.0%	100.0%	5,438	72.9%	98.6%	72.9%
Van Zandt County	13,677	100.0%	100.0%	100.0%	42,913	91.6%	100.0%	91.6%
Victoria County	65,380	98.9%	100.0%	98.9%	26,704	56.9%	100.0%	56.9%
Walker County	38,310	75.8%	100.0%	75.8%	34,661	64.9%	100.0%	64.9%
Waller County	19,567	98.2%	100.0%	98.2%	35,667	90.5%	100.0%	90.5%
Ward County	7,675	100.0%	100.0%	100.0%	4,323	93.2%	100.0%	93.2%
Washington County	16,091	93.6%	100.0%	93.6%	19,789	85.9%	100.0%	85.9%
Webb County	256,640	100.0%	100.0%	100.0%	20,012	75.7%	100.0%	75.7%
Wharton County	20,356	99.4%	100.0%	99.4%	21,200	73.1%	100.0%	73.1%
Wheeler County					5,056	97.7%	100.0%	97.7%
Wichita County	118,025	98.2%	100.0%	98.2%	14,205	96.4%	100.0%	96.4%
Wilbarger County	9,766	100.0%	100.0%	100.0%	3,003	96.4%	100.0%	96.4%
Willacy County	13,828	100.0%	100.0%	100.0%	7,530	100.0%	100.0%	100.0%
Williamson County	467,074	99.7%	100.0%	99.7%	123,440	84.3%	100.0%	84.3%
Wilson County	6,518	100.0%	100.0%	100.0%	44,547	100.0%	100.0%	100.0%
Winkler County	5,633	36.8%	100.0%	36.8%	2,377	53.5%	100.0%	53.5%
Wise County	17,972	100.0%	100.0%	100.0%	52,011	99.8%	100.0%	99.8%
Wood County	11,378	92.6%	100.0%	92.6%	34,160	74.1%	100.0%	74.1%
Yoakum County	4,933	100.0%	100.0%	100.0%	3,780	68.9%	100.0%	68.9%
Young County	12,001	100.0%	100.0%	100.0%	6,009	99.9%	100.0%	99.9%
Zapata County	9,745	100.0%	100.0%	100.0%	4,434	40.3%	100.0%	40.3%
Zavala County	7,020	100.0%	100.0%	100.0%	4,820	51.7%	100.0%	51.7%
Utah	**2,778,959**	**99.3%**	**100.0%**	**99.3%**	**426,555**	**72.3%**	**99.0%**	**72.2%**
Beaver County	2,635	100.0%	100.0%	100.0%	4,075	91.3%	99.8%	91.3%

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Box Elder County	35,108	100.0%	100.0%	100.0%	20,936	78.3%	99.8%	78.3%
Cache County	103,108	100.0%	100.0%	100.0%	25,180	98.6%	99.7%	98.5%
Carbon County	13,177	100.0%	100.0%	100.0%	7,286	77.7%	100.0%	77.7%
Daggett County					950	88.2%	98.6%	88.2%
Davis County	350,098	99.5%	100.0%	99.5%	5,379	85.5%	100.0%	85.5%
Duchesne County	4,376	99.6%	100.0%	99.6%	15,562	61.7%	99.9%	61.6%
Emery County	1,886	100.0%	100.0%	100.0%	8,126	76.5%	99.9%	76.5%
Garfield County					5,051	98.4%	98.6%	97.4%
Grand County	4,219	99.9%	100.0%	99.9%	5,535	17.7%	89.7%	17.7%
Iron County	36,696	100.0%	100.0%	100.0%	18,143	87.6%	99.7%	87.6%
Juab County	5,441	99.6%	100.0%	99.6%	6,573	70.3%	89.7%	66.8%
Kane County	3,070	100.0%	100.0%	100.0%	4,639	92.1%	99.8%	92.1%
Millard County	2,828	98.2%	100.0%	98.2%	10,178	59.2%	99.1%	59.2%
Morgan County	3,718	99.4%	100.0%	99.4%	8,406	81.4%	93.9%	81.2%
Piute County					1,479	99.7%	100.0%	99.7%
Rich County					2,483	86.5%	100.0%	86.5%
Salt Lake County	1,138,934	99.6%	100.0%	99.6%	21,501	87.3%	100.0%	87.3%
San Juan County	2,281	96.6%	100.0%	96.6%	13,027	17.8%	89.7%	16.0%
Sanpete County	16,607	99.9%	100.0%	99.9%	14,332	87.6%	99.9%	87.6%
Sevier County	6,217	100.0%	100.0%	100.0%	15,403	94.9%	100.0%	94.9%
Summit County	23,108	89.2%	100.0%	89.2%	19,036	73.5%	98.8%	73.3%
Tooele County	49,711	99.7%	100.0%	99.7%	22,543	53.2%	99.2%	52.8%
Uintah County	14,578	99.9%	100.0%	99.9%	21,155	64.0%	99.8%	64.0%
Utah County	562,497	99.1%	100.0%	99.1%	73,700	45.2%	100.0%	45.2%
Wasatch County	20,417	96.7%	100.0%	96.7%	13,671	74.8%	99.1%	74.8%
Washington County	136,133	98.9%	100.0%	98.9%	41,414	93.8%	100.0%	93.8%
Wayne County					2,711	89.6%	99.8%	89.6%
Weber County	242,116	98.6%	100.0%	98.6%	18,081	92.8%	98.8%	92.8%
Vermont	**239,729**	**98.8%**	**100.0%**	**98.8%**	**384,260**	**89.6%**	**99.9%**	**89.5%**
Addison County	7,832	99.6%	100.0%	99.6%	28,945	90.4%	100.0%	90.4%
Bennington County	12,058	99.7%	100.0%	99.7%	23,412	95.4%	99.8%	95.3%

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Caledonia County	7,270	99.9%	100.0%	99.9%	22,723	80.4%	100.0%	80.4%
Chittenden County	118,969	98.1%	100.0%	98.1%	44,805	96.8%	100.0%	96.8%
Essex County					6,163	72.7%	94.8%	68.5%
Franklin County	13,700	99.8%	100.0%	99.8%	35,702	86.6%	99.9%	86.5%
Grand Isle County					7,235	99.2%	100.0%	99.2%
Lamoille County					25,362	91.2%	100.0%	91.2%
Orange County	794	100.0%	100.0%	100.0%	28,098	80.3%	100.0%	80.3%
Orleans County	3,807	99.9%	100.0%	99.9%	23,230	82.1%	99.9%	82.1%
Rutland County	21,919	99.8%	100.0%	99.8%	36,272	93.2%	100.0%	93.2%
Washington County	27,376	99.2%	100.0%	99.2%	31,033	89.5%	100.0%	89.5%
Windham County	12,922	99.7%	100.0%	99.7%	29,300	86.3%	100.0%	86.3%
Windsor County	13,082	97.3%	100.0%	97.3%	41,980	95.3%	100.0%	95.3%
Virginia	**6,431,747**	**98.1%**	**100.0%**	**98.1%**	**2,109,250**	**82.2%**	**99.2%**	**81.6%**
Accomack County					32,316	90.5%	99.9%	90.4%
Albemarle County	56,231	99.2%	100.0%	99.2%	53,094	85.6%	99.7%	85.3%
Alexandria city	159,428	98.3%	100.0%	98.3%				
Alleghany County	6,964	99.7%	100.0%	99.7%	7,896	88.2%	95.3%	84.6%
Amelia County					13,144	70.4%	98.6%	70.4%
Amherst County	11,067	96.6%	100.0%	96.6%	20,538	93.0%	99.9%	93.0%
Appomattox County					15,911	76.7%	100.0%	76.7%
Arlington County	236,842	98.1%	100.0%	98.1%				
Augusta County	24,682	99.7%	100.0%	99.7%	50,875	97.7%	98.6%	96.7%
Bath County					4,147	72.6%	90.7%	66.0%
Bedford County	21,529	99.1%	100.0%	99.1%	63,106	75.8%	99.9%	75.8%
Bland County					6,280	78.9%	98.4%	77.7%
Botetourt County	11,836	99.8%	100.0%	99.8%	21,583	69.7%	99.4%	69.7%
Bristol city	16,735	100.0%	100.0%	100.0%	8	100.0%	100.0%	100.0%
Brunswick County	3,304	59.6%	100.0%	59.6%	12,927	22.0%	100.0%	22.0%
Buchanan County					21,004	100.0%	82.5%	82.5%
Buckingham County					17,148	39.8%	100.0%	39.8%
Buena Vista city	6,204	97.6%	100.0%	97.6%	271	88.6%	100.0%	88.6%

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Campbell County	21,315	98.0%	100.0%	98.0%	33,570	67.1%	100.0%	67.1%
Caroline County	6,281	99.9%	100.0%	99.9%	24,444	54.9%	100.0%	54.9%
Carroll County	808	100.0%	100.0%	100.0%	28,980	94.7%	99.0%	93.8%
Charles City County					6,963	100.0%	100.0%	100.0%
Charlotte County					11,880	52.6%	99.9%	52.5%
Charlottesville city	47,266	99.3%	100.0%	99.3%				
Chesapeake city	223,178	98.6%	100.0%	98.6%	21,648	94.4%	100.0%	94.4%
Chesterfield County	326,434	97.4%	100.0%	97.4%	26,359	95.7%	100.0%	95.7%
Clarke County	4,300	100.0%	100.0%	100.0%	10,319	99.3%	100.0%	99.3%
Colonial Heights city	17,370	98.7%	100.0%	98.7%				
Covington city	5,537	99.7%	100.0%	99.7%	1	0.0%	100.0%	0.0%
Craig County					5,130	74.7%	59.6%	49.7%
Culpeper County	18,609	100.0%	100.0%	100.0%	33,995	99.8%	100.0%	99.8%
Cumberland County	363	100.0%	100.0%	100.0%	9,569	16.6%	100.0%	16.6%
Danville city	38,277	99.1%	100.0%	99.1%	1,767	98.5%	100.0%	98.5%
Dickenson County					14,318	97.8%	94.9%	92.6%
Dinwiddie County	7,955	91.5%	100.0%	91.5%	20,589	40.6%	100.0%	40.6%
Emporia city	4,966	96.0%	100.0%	96.0%	379	96.3%	100.0%	96.3%
Essex County	2,457	100.0%	100.0%	100.0%	8,495	67.7%	100.0%	67.7%
Fairfax County	1,130,127	98.5%	100.0%	98.5%	17,405	99.2%	100.0%	99.2%
Fairfax city	24,019	99.8%	100.0%	99.8%				
Falls Church city	14,617	98.6%	100.0%	98.6%				
Fauquier County	28,653	99.2%	100.0%	99.2%	42,567	84.3%	100.0%	84.3%
Floyd County					15,749	75.9%	99.8%	75.9%
Fluvanna County	9,715	99.2%	100.0%	99.2%	17,553	72.8%	100.0%	72.8%
Franklin County	5,981	100.0%	100.0%	100.0%	50,061	86.7%	100.0%	86.7%
Franklin city	7,685	100.0%	100.0%	100.0%	282	100.0%	100.0%	100.0%
Frederick County	45,832	98.9%	100.0%	98.9%	43,478	66.3%	100.0%	66.3%
Fredericksburg city	28,643	93.4%	100.0%	93.4%	393	96.4%	100.0%	96.4%
Galax city	5,437	100.0%	100.0%	100.0%	910	99.9%	100.0%	99.9%
Giles County	5,683	99.9%	100.0%	99.9%	11,037	93.8%	99.3%	93.7%

	Urban Areas				Rural Areas			
County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both
Gloucester County	13,102	99.2%	100.0%	99.2%	24,246	92.6%	100.0%	92.6%
Goochland County	663	99.2%	100.0%	99.2%	23,087	66.0%	100.0%	66.0%
Grayson County	19	100.0%	100.0%	100.0%	15,531	75.2%	82.0%	68.8%
Greene County	9,293	100.0%	100.0%	100.0%	10,526	99.7%	99.7%	99.5%
Greensville County	1,133	73.3%	100.0%	73.3%	10,203	18.5%	100.0%	18.5%
Halifax County	7,411	95.5%	100.0%	95.5%	26,500	65.1%	100.0%	65.1%
Hampton city	134,153	97.9%	99.8%	97.7%	357	100.0%	100.0%	100.0%
Hanover County	63,143	99.4%	100.0%	99.4%	44,618	72.0%	100.0%	72.0%
Harrisonburg city	53,016	100.0%	100.0%	100.0%				
Henrico County	315,462	98.4%	100.0%	98.4%	15,352	94.6%	100.0%	94.6%
Henry County	18,837	99.2%	100.0%	99.2%	31,720	94.5%	100.0%	94.5%
Highland County					2,190	48.2%	62.6%	33.2%
Hopewell city	22,517	98.3%	100.0%	98.3%	12	41.7%	100.0%	41.7%
Isle of Wight County	15,418	99.7%	100.0%	99.7%	21,691	75.9%	100.0%	75.9%
James City County	62,583	95.3%	100.0%	95.3%	13,936	91.7%	100.0%	91.7%
King George County	6,922	99.1%	100.0%	99.1%	19,914	91.4%	100.0%	91.4%
King William County	2,767	98.0%	100.0%	98.0%	14,381	30.2%	100.0%	30.2%
King and Queen County					7,025	22.3%	100.0%	22.3%
Lancaster County					10,603	100.0%	99.9%	99.9%
Lee County	112	100.0%	100.0%	100.0%	23,311	88.9%	97.7%	88.2%
Lexington city	7,444	96.1%	100.0%	96.1%				
Loudoun County	336,266	99.5%	100.0%	99.5%	77,254	99.9%	100.0%	99.9%
Louisa County					37,587	68.0%	100.0%	68.0%
Lunenburg County					12,196	29.4%	100.0%	29.4%
Lynchburg city	79,589	90.7%	100.0%	90.7%	2,579	96.6%	100.0%	96.6%
Madison County					13,261	100.0%	100.0%	100.0%
Manassas Park city	17,474	98.4%	100.0%	98.4%				
Manassas city	41,085	96.1%	100.0%	96.1%				
Martinsville city	12,554	98.7%	100.0%	98.7%				
Mathews County					8,834	96.1%	99.0%	95.1%

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Mecklenburg County	6,890	99.2%	100.0%	99.2%	23,697	45.0%	100.0%	45.0%
Middlesex County					10,582	97.4%	100.0%	97.4%
Montgomery County	72,575	100.0%	100.0%	100.0%	25,960	97.5%	99.5%	97.1%
Nelson County					14,929	94.9%	99.8%	94.8%
New Kent County					23,090	76.6%	100.0%	76.6%
Newport News city	179,129	98.4%	100.0%	98.4%	92	73.9%	100.0%	73.9%
Norfolk city	242,742	97.1%	100.0%	97.1%				
Northampton County					11,710	94.1%	99.9%	94.0%
Northumberland County					12,095	100.0%	100.0%	100.0%
Norton city	3,866	97.1%	100.0%	97.1%	115	80.0%	100.0%	80.0%
Nottoway County	6,965	80.9%	100.0%	80.9%	8,267	34.6%	100.0%	34.6%
Orange County	14,710	100.0%	100.0%	100.0%	22,339	99.6%	100.0%	99.6%
Page County	4,760	100.0%	100.0%	100.0%	19,142	99.3%	100.0%	99.3%
Patrick County					17,608	44.2%	99.3%	43.6%
Petersburg city	30,661	98.7%	100.0%	98.7%	685	94.0%	100.0%	94.0%
Pittsylvania County	7,641	98.8%	100.0%	98.8%	52,713	66.5%	100.0%	66.5%
Poquoson city	11,475	99.1%	100.0%	99.1%	796	100.0%	100.0%	100.0%
Portsmouth city	94,398	98.3%	100.0%	98.3%				
Powhatan County	102	97.1%	100.0%	97.1%	29,550	83.4%	100.0%	83.4%
Prince Edward County	7,782	99.0%	100.0%	99.0%	15,020	45.4%	100.0%	45.4%
Prince George County	16,603	92.1%	100.0%	92.1%	21,750	87.7%	100.0%	87.7%
Prince William County	442,525	97.6%	100.0%	97.6%	27,795	92.7%	100.0%	92.7%
Pulaski County	18,087	100.0%	100.0%	100.0%	15,940	99.5%	100.0%	99.5%
Radford city	17,643	99.9%	100.0%	99.9%	606	100.0%	100.0%	100.0%
Rappahannock County					7,369	91.8%	97.7%	90.6%
Richmond County					9,023	98.7%	100.0%	98.7%
Richmond city	230,422	94.8%	100.0%	94.8%				
Roanoke County	76,114	99.9%	100.0%	99.9%	18,070	94.0%	99.0%	93.3%
Roanoke city	99,130	100.0%	100.0%	100.0%	13	100.0%	100.0%	100.0%

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Rockbridge County	1,884	99.0%	100.0%	99.0%	20,689	83.8%	99.9%	83.8%
Rockingham County	32,028	100.0%	100.0%	100.0%	49,917	98.2%	98.4%	97.6%
Russell County	3,051	99.6%	100.0%	99.6%	23,535	88.2%	99.9%	88.1%
Salem city	25,301	100.0%	100.0%	100.0%				
Scott County	3,710	94.1%	100.0%	94.1%	17,855	80.2%	98.2%	79.7%
Shenandoah County	14,331	98.7%	100.0%	98.7%	29,285	87.5%	99.7%	87.5%
Smyth County	7,655	94.7%	100.0%	94.7%	22,449	93.1%	94.7%	88.5%
Southampton County	376	100.0%	100.0%	100.0%	17,255	46.4%	100.0%	46.4%
Spotsylvania County	87,734	99.3%	100.0%	99.3%	48,479	96.9%	100.0%	96.9%
Stafford County	118,731	99.3%	100.0%	99.3%	34,148	97.2%	100.0%	97.2%
Staunton city	23,946	99.9%	100.0%	99.9%	986	99.8%	100.0%	99.8%
Suffolk city	69,975	99.6%	100.0%	99.6%	22,133	78.9%	100.0%	78.9%
Surry County					6,422	91.8%	100.0%	91.8%
Sussex County					11,159	45.3%	100.0%	45.3%
Tazewell County	19,897	99.9%	100.0%	99.9%	20,698	97.9%	98.7%	96.6%
Virginia Beach city	442,409	98.3%	100.0%	98.3%	7,565	98.0%	100.0%	98.0%
Warren County	19,339	94.9%	100.0%	94.9%	20,825	89.1%	99.9%	89.1%
Washington County	14,716	99.1%	100.0%	99.1%	39,024	99.2%	98.9%	98.1%
Waynesboro city	21,993	98.4%	100.0%	98.4%	637	96.2%	100.0%	96.2%
Westmoreland County	3,723	99.4%	100.0%	99.4%	14,292	92.5%	100.0%	92.5%
Williamsburg city	14,951	78.4%	100.0%	78.4%				
Winchester city	28,078	99.8%	100.0%	99.8%				
Wise County	15,664	98.4%	100.0%	98.4%	21,719	94.9%	99.9%	94.9%
Wythe County	7,017	99.7%	100.0%	99.7%	21,667	86.5%	100.0%	86.5%
York County	63,725	98.6%	99.9%	98.6%	4,552	94.0%	100.0%	94.0%
Washington	**6,276,202**	**99.0%**	**100.0%**	**99.0%**	**1,338,272**	**83.6%**	**98.6%**	**83.0%**
Adams County	11,437	100.0%	100.0%	100.0%	8,543	84.8%	100.0%	84.8%
Asotin County	20,584	98.6%	100.0%	98.6%	1,998	35.7%	90.6%	35.7%
Benton County	172,472	99.7%	100.0%	99.7%	31,915	86.2%	100.0%	86.2%
Chelan County	54,550	100.0%	100.0%	100.0%	22,650	100.0%	98.4%	98.4%

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Clallam County	47,812	91.9%	100.0%	91.9%	29,519	53.5%	99.2%	53.5%
Clark County	411,680	99.5%	100.0%	99.5%	76,560	79.0%	99.9%	79.0%
Columbia County	2,452	100.0%	100.0%	100.0%	1,533	100.0%	90.7%	90.7%
Cowlitz County	75,210	99.4%	100.0%	99.4%	35,381	73.9%	97.6%	73.2%
Douglas County	29,237	100.0%	100.0%	100.0%	14,192	100.0%	99.4%	99.4%
Ferry County					7,627	99.6%	95.3%	94.9%
Franklin County	76,536	100.0%	100.0%	100.0%	18,683	99.6%	97.4%	97.1%
Garfield County					2,225	59.8%	99.7%	59.8%
Grant County	56,873	100.0%	100.0%	100.0%	40,860	83.4%	100.0%	83.3%
Grays Harbor County	44,266	99.1%	100.0%	99.1%	30,794	73.5%	99.3%	73.2%
Island County	43,594	98.5%	100.0%	98.5%	41,547	99.0%	99.5%	98.4%
Jefferson County	13,200	98.5%	100.0%	98.5%	19,020	75.9%	99.7%	75.8%
King County	2,138,909	98.5%	100.0%	98.5%	113,850	75.1%	97.4%	73.6%
Kitsap County	224,256	97.6%	99.7%	97.3%	47,214	94.5%	100.0%	94.5%
Kittitas County	25,922	99.6%	100.0%	99.6%	22,004	72.3%	98.7%	71.9%
Klickitat County	8,268	99.1%	100.0%	99.1%	14,157	40.6%	99.1%	40.5%
Lewis County	30,474	97.8%	100.0%	97.8%	50,229	63.5%	98.6%	63.3%
Lincoln County					10,939	57.2%	100.0%	57.2%
Mason County	23,215	99.3%	100.0%	99.3%	43,547	91.0%	99.6%	90.8%
Okanogan County	8,261	100.0%	100.0%	100.0%	33,982	93.4%	92.2%	87.2%
Pacific County	7,602	99.3%	100.0%	99.3%	14,865	78.2%	99.7%	78.1%
Pend Oreille County	2,224	100.0%	100.0%	100.0%	11,498	100.0%	98.9%	98.9%
Pierce County	831,287	99.3%	100.0%	99.3%	73,689	75.1%	96.7%	75.1%
San Juan County					17,582	97.4%	100.0%	97.4%
Skagit County	88,752	99.6%	100.0%	99.6%	40,449	88.5%	98.9%	88.0%
Skamania County					12,081	67.0%	96.1%	66.3%
Snohomish County	719,927	99.2%	100.0%	99.2%	102,143	84.6%	99.4%	84.5%
Spokane County	441,840	100.0%	100.0%	100.0%	80,953	100.0%	100.0%	100.0%
Stevens County	8,946	100.0%	100.0%	100.0%	36,777	100.0%	97.9%	97.9%
Thurston County	222,065	99.1%	100.0%	99.1%	68,463	92.9%	99.1%	92.9%
Wahkiakum County					4,488	62.5%	97.7%	62.5%

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Walla Walla County	49,443	100.0%	100.0%	100.0%	11,317	100.0%	99.6%	99.6%
Whatcom County	163,017	99.9%	100.0%	99.9%	66,227	92.2%	98.7%	91.6%
Whitman County	33,278	92.9%	100.0%	92.9%	16,511	68.2%	99.8%	68.2%
Yakima County	188,613	99.5%	100.0%	99.5%	62,260	77.4%	97.5%	76.9%
West Virginia	**878,565**	**93.5%**	**100.0%**	**93.5%**	**913,581**	**71.3%**	**93.3%**	**68.2%**
Barbour County	2,299	98.7%	100.0%	98.7%	14,142	84.9%	97.0%	83.8%
Berkeley County	79,198	99.0%	100.0%	99.0%	39,972	91.4%	100.0%	91.4%
Boone County	4,559	94.0%	99.3%	93.4%	16,898	91.1%	87.5%	80.5%
Braxton County					13,957	69.1%	92.9%	68.6%
Brooke County	13,205	99.3%	100.0%	99.3%	8,734	82.5%	100.0%	82.5%
Cabell County	71,800	98.6%	100.0%	98.6%	20,145	80.4%	99.9%	80.4%
Calhoun County					7,109	30.4%	90.5%	29.3%
Clay County					8,508	44.2%	85.8%	35.1%
Doddridge County					8,448	48.3%	84.6%	46.8%
Fayette County	18,640	94.3%	99.6%	93.8%	23,766	66.5%	97.1%	64.3%
Gilmer County	2,681	47.5%	100.0%	47.5%	5,142	34.3%	70.8%	31.3%
Grant County	2,454	99.9%	100.0%	99.9%	9,114	51.3%	97.8%	49.7%
Greenbrier County	10,507	95.5%	100.0%	95.5%	24,155	70.0%	93.4%	66.6%
Hampshire County					23,175	49.8%	98.3%	48.9%
Hancock County	19,967	98.8%	100.0%	98.8%	8,843	85.9%	100.0%	85.9%
Hardy County	2,629	100.0%	100.0%	100.0%	11,147	97.0%	93.0%	90.1%
Harrison County	42,502	98.2%	100.0%	98.2%	24,754	76.6%	96.8%	76.5%
Jackson County	8,147	100.0%	100.0%	100.0%	20,429	89.2%	99.0%	88.8%
Jefferson County	29,121	96.9%	100.0%	96.9%	28,025	98.6%	100.0%	98.6%
Kanawha County	133,047	95.2%	99.9%	95.1%	45,077	84.5%	97.5%	83.0%
Lewis County	4,924	100.0%	100.0%	100.0%	10,983	77.3%	88.5%	72.4%
Lincoln County					20,409	75.9%	77.2%	61.6%
Logan County	10,459	80.3%	98.1%	78.3%	21,560	73.8%	91.6%	69.2%
Marion County	32,704	99.8%	100.0%	99.8%	23,368	83.0%	99.0%	83.0%
Marshall County	16,439	97.5%	100.0%	97.5%	14,092	57.8%	97.8%	57.5%
Mason County	9,260	88.6%	100.0%	88.6%	17,256	47.6%	99.3%	47.6%

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McDowell County	2,376	97.6%	100.0%	97.6%	15,248	85.9%	62.0%	56.2%
Mercer County	34,463	98.3%	100.0%	98.3%	24,295	88.3%	99.3%	88.1%
Mineral County	9,572	91.1%	100.0%	91.1%	17,296	68.4%	100.0%	68.4%
Mingo County	2,774	81.9%	100.0%	81.9%	20,650	64.6%	85.7%	57.7%
Monongalia County	74,791	63.3%	100.0%	63.3%	30,821	30.0%	97.3%	29.7%
Monroe County	1,534	98.9%	100.0%	98.9%	11,741	85.7%	88.1%	81.9%
Morgan County					17,884	80.5%	98.1%	80.3%
Nicholas County	2,913	100.0%	100.0%	100.0%	21,583	59.2%	93.3%	56.0%
Ohio County	31,852	99.4%	100.0%	99.4%	9,559	84.0%	100.0%	84.0%
Pendleton County					6,969	56.8%	70.7%	48.0%
Pleasants County	3,327	76.2%	100.0%	76.2%	4,133	54.6%	96.4%	54.2%
Pocahontas County					8,247	70.6%	42.2%	34.3%
Preston County	3,167	93.9%	100.0%	93.9%	30,265	66.5%	98.7%	65.9%
Putnam County	35,889	96.5%	100.0%	96.5%	20,561	66.7%	98.7%	66.5%
Raleigh County	44,064	91.9%	100.0%	91.9%	29,297	85.5%	92.3%	79.7%
Randolph County	10,796	99.7%	100.0%	99.7%	17,899	70.9%	88.5%	68.3%
Ritchie County					9,554	42.3%	87.7%	41.9%
Roane County	2,665	93.7%	100.0%	93.7%	11,023	29.7%	93.6%	28.6%
Summers County	3,323	76.6%	100.0%	76.6%	9,250	46.7%	99.5%	46.4%
Taylor County	6,529	96.5%	100.0%	96.5%	10,166	81.0%	99.8%	81.0%
Tucker County					6,839	59.1%	87.8%	54.6%
Tyler County	824	97.7%	100.0%	97.7%	7,767	36.8%	92.0%	36.3%
Upshur County	8,520	99.9%	100.0%	99.9%	15,656	76.6%	93.6%	76.3%
Wayne County	14,077	88.0%	100.0%	88.0%	25,325	73.0%	95.0%	71.0%
Webster County					8,114	66.3%	83.2%	62.4%
Wetzel County	6,694	94.8%	100.0%	94.8%	8,371	15.3%	63.9%	14.8%
Wirt County					5,821	43.8%	92.8%	43.8%
Wood County	61,315	98.1%	100.0%	98.1%	22,203	71.7%	99.4%	71.7%
Wyoming County	2,558	99.6%	99.3%	98.9%	17,836	91.6%	83.7%	77.6%
Wisconsin	**4,059,783**	**99.8%**	**100.0%**	**99.8%**	**1,762,561**	**78.2%**	**99.9%**	**78.1%**
Adams County					20,220	80.5%	100.0%	80.5%

	Urban Areas				Rural Areas			
County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both
Ashland County	6,709	99.7%	100.0%	99.7%	8,853	39.3%	99.7%	39.3%
Barron County	15,122	99.9%	100.0%	99.9%	30,122	64.3%	99.9%	64.3%
Bayfield County					15,036	87.5%	99.3%	87.1%
Brown County	222,969	100.0%	100.0%	100.0%	41,561	88.2%	100.0%	88.2%
Buffalo County					13,031	95.6%	98.1%	93.7%
Burnett County					15,414	89.4%	100.0%	89.4%
Calumet County	35,816	100.0%	100.0%	100.0%	14,273	89.8%	100.0%	89.8%
Chippewa County	34,241	100.0%	100.0%	100.0%	30,412	73.7%	100.0%	73.7%
Clark County	2,737	99.8%	100.0%	99.8%	32,036	50.4%	100.0%	50.4%
Columbia County	22,340	99.0%	100.0%	99.0%	35,190	71.5%	100.0%	71.5%
Crawford County	6,017	99.8%	100.0%	99.8%	10,114	56.8%	98.0%	55.5%
Dane County	460,996	99.7%	100.0%	99.7%	85,694	92.4%	100.0%	92.4%
Dodge County	44,669	99.9%	100.0%	99.9%	43,170	57.4%	100.0%	57.4%
Door County	8,278	100.0%	100.0%	100.0%	19,390	100.0%	99.9%	99.9%
Douglas County	26,329	99.8%	100.0%	99.7%	16,821	44.5%	100.0%	44.5%
Dunn County	18,108	99.5%	100.0%	99.5%	27,257	61.5%	100.0%	61.5%
Eau Claire County	79,427	99.9%	100.0%	99.9%	25,219	69.4%	100.0%	69.4%
Florence County					4,295	90.7%	99.7%	90.4%
Fond du Lac County	66,566	99.3%	100.0%	99.3%	36,830	62.7%	100.0%	62.7%
Forest County					9,004	65.5%	99.3%	65.4%
Grant County	17,461	98.2%	100.0%	98.2%	33,978	81.0%	99.5%	80.6%
Green County	14,534	100.0%	100.0%	100.0%	22,425	99.6%	99.9%	99.6%
Green Lake County	4,823	100.0%	100.0%	100.0%	14,090	64.7%	100.0%	64.7%
Iowa County	4,653	100.0%	100.0%	100.0%	19,025	86.1%	100.0%	86.1%
Iron County	1,801	100.0%	100.0%	100.0%	3,886	45.8%	99.4%	45.7%
Jackson County	5,580	81.0%	100.0%	81.0%	15,061	51.3%	100.0%	51.3%
Jefferson County	55,568	100.0%	100.0%	100.0%	29,201	75.9%	100.0%	75.9%
Juneau County	4,170	74.5%	100.0%	74.5%	22,516	69.8%	100.0%	69.8%
Kenosha County	150,985	100.0%	100.0%	100.0%	18,575	99.9%	100.0%	99.9%
Kewaunee County	5,603	100.0%	100.0%	100.0%	14,828	100.0%	100.0%	100.0%
La Crosse County	97,582	99.5%	100.0%	99.5%	20,434	81.1%	100.0%	81.1%

	Urban Areas				Rural Areas			
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Lafayette County					16,665	70.8%	100.0%	70.8%
Langlade County	7,512	100.0%	100.0%	100.0%	11,677	79.0%	100.0%	79.0%
Lincoln County	12,383	99.8%	100.0%	99.8%	15,210	67.7%	100.0%	67.7%
Manitowoc County	47,504	100.0%	100.0%	100.0%	31,477	99.8%	100.0%	99.8%
Marathon County	76,817	100.0%	100.0%	100.0%	58,874	96.0%	99.9%	95.9%
Marinette County	14,981	100.0%	100.0%	100.0%	25,369	48.6%	99.8%	48.6%
Marquette County					15,574	87.1%	100.0%	87.1%
Menominee County					4,556	68.4%	99.9%	68.4%
Milwaukee County	943,868	100.0%	100.0%	100.0%	1,858	99.9%	100.0%	99.9%
Monroe County	19,220	100.0%	100.0%	100.0%	27,031	58.1%	100.0%	58.1%
Oconto County	7,046	100.0%	100.0%	100.0%	30,883	62.6%	100.0%	62.6%
Oneida County	8,790	100.0%	100.0%	100.0%	26,804	79.2%	100.0%	79.2%
Outagamie County	140,148	100.0%	100.0%	100.0%	47,734	78.2%	100.0%	78.2%
Ozaukee County	66,780	100.0%	100.0%	100.0%	22,440	95.9%	100.0%	95.9%
Pepin County					7,287	97.3%	100.0%	97.3%
Pierce County	19,215	96.4%	100.0%	96.4%	23,536	95.3%	100.0%	95.2%
Polk County	5,971	60.9%	100.0%	60.9%	37,812	66.9%	100.0%	66.9%
Portage County	44,942	99.9%	100.0%	99.9%	25,830	76.3%	100.0%	76.3%
Price County					13,351	36.3%	99.5%	36.3%
Racine County	171,889	100.0%	100.0%	100.0%	24,422	100.0%	100.0%	100.0%
Richland County	4,482	100.0%	100.0%	100.0%	12,770	34.4%	99.4%	34.4%
Rock County	129,534	100.0%	100.0%	100.0%	33,820	99.3%	100.0%	99.3%
Rusk County	3,119	99.9%	100.0%	99.9%	11,059	46.5%	100.0%	46.5%
Sauk County	33,996	99.7%	100.0%	99.7%	30,446	70.3%	100.0%	70.3%
Sawyer County	2,576	100.0%	100.0%	100.0%	13,981	67.0%	99.2%	66.7%
Shawano County	10,278	99.9%	100.0%	99.9%	30,621	77.7%	100.0%	77.7%
Sheboygan County	82,555	100.0%	100.0%	100.0%	32,785	99.9%	100.0%	99.9%
St. Croix County	41,508	98.0%	100.0%	98.0%	49,169	77.8%	100.0%	77.8%
Taylor County	3,808	99.4%	100.0%	99.4%	16,535	50.1%	100.0%	50.1%
Trempealeau County	2,999	100.0%	100.0%	100.0%	26,650	91.6%	100.0%	91.6%
Vernon County	4,302	98.0%	100.0%	98.0%	26,520	95.6%	98.1%	93.7%

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Vilas County					22,194	70.9%	100.0%	70.9%
Walworth County	67,740	99.9%	100.0%	99.9%	36,127	94.8%	100.0%	94.8%
Washburn County	2,614	100.0%	100.0%	100.0%	13,106	60.9%	100.0%	60.9%
Washington County	93,631	99.9%	100.0%	99.9%	42,394	87.9%	100.0%	87.9%
Waukesha County	363,597	100.0%	100.0%	100.0%	40,595	99.7%	100.0%	99.7%
Waupaca County	17,223	99.3%	100.0%	99.3%	33,767	70.3%	100.0%	70.3%
Waushara County	2,335	99.9%	100.0%	99.9%	22,106	57.8%	100.0%	57.8%
Winnebago County	147,937	100.0%	100.0%	100.0%	23,965	97.8%	100.0%	97.8%
Wood County	45,399	99.9%	100.0%	99.9%	27,600	66.2%	100.0%	66.2%
Wyoming	**357,628**	**100.0%**	**100.0%**	**100.0%**	**221,122**	**81.0%**	**98.9%**	**80.5%**
Albany County	32,436	100.0%	100.0%	100.0%	6,443	68.4%	95.8%	68.2%
Big Horn County					11,790	78.8%	99.7%	78.7%
Campbell County	31,428	100.0%	100.0%	100.0%	14,913	96.5%	100.0%	96.4%
Carbon County	8,081	100.0%	100.0%	100.0%	6,719	77.5%	95.5%	75.6%
Converse County	5,951	100.0%	100.0%	100.0%	7,871	93.7%	99.6%	93.6%
Crook County					7,583	85.0%	99.5%	85.0%
Fremont County	18,933	100.0%	100.0%	100.0%	20,328	60.2%	99.6%	60.0%
Goshen County	7,097	100.0%	100.0%	100.0%	6,114	99.4%	100.0%	99.4%
Hot Springs County	2,990	100.0%	100.0%	100.0%	1,423	60.4%	98.7%	60.4%
Johnson County	4,243	100.0%	100.0%	100.0%	4,202	84.3%	100.0%	84.3%
Laramie County	75,736	99.9%	100.0%	99.9%	23,764	94.6%	100.0%	94.6%
Lincoln County	3,177	100.0%	100.0%	100.0%	16,647	86.8%	95.6%	83.6%
Natrona County	61,705	100.0%	100.0%	100.0%	18,153	75.6%	99.8%	75.6%
Niobrara County					2,356	88.5%	99.0%	88.4%
Park County	15,666	100.0%	100.0%	100.0%	13,528	31.4%	98.8%	31.4%
Platte County	3,345	99.8%	100.0%	99.8%	5,048	88.5%	99.8%	88.5%
Sheridan County	19,136	100.0%	100.0%	100.0%	11,349	94.6%	99.9%	94.6%
Sublette County					9,831	95.4%	99.7%	95.3%
Sweetwater County	36,699	100.0%	100.0%	100.0%	5,644	56.6%	98.5%	55.3%
Teton County	11,876	99.9%	100.0%	99.9%	11,587	90.1%	95.7%	88.0%
Uinta County	11,204	100.0%	100.0%	100.0%	9,022	99.2%	99.6%	98.8%

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Washakie County	4,814	100.0%	100.0%	100.0%	2,991	71.4%	99.2%	71.3%
Weston County	3,111	100.0%	100.0%	100.0%	3,816	80.7%	99.6%	80.4%
American Samoa	**40,674**	**100.0%**	**0.0%**	**0.0%**	**7,374**	**99.8%**	**0.0%**	**0.0%**
Eastern District	17,004	100.0%	0.0%	0.0%	2,927	100.0%	0.0%	0.0%
Manu'a District					990	100.0%	0.0%	0.0%
Swains Island					14	0.0%	0.0%	0.0%
Western District	23,670	100.0%	0.0%	0.0%	3,443	100.0%	0.0%	0.0%
Guam	**157,044**	**69.4%**	**100.0%**	**69.4%**	**11,441**	**34.2%**	**99.8%**	**34.2%**
N. Mariana Isl.	**45,696**	**98.1%**	**99.7%**	**97.8%**	**5,736**	**88.5%**	**95.3%**	**86.6%**
Rota Municipality					2,412	81.3%	97.2%	80.3%
Saipan Municipality	43,179	98.4%	99.7%	98.1%	2,848	98.0%	98.6%	96.6%
Tinian Municipality	2,517	93.1%	100.0%	93.1%	476	68.9%	65.8%	58.8%
Puerto Rico	**2,986,299**	**100.0%**	**100.0%**	**100.0%**	**207,351**	**98.8%**	**99.7%**	**98.6%**
Adjuntas Municipio	9,524	100.0%	100.0%	100.0%	7,839	100.0%	100.0%	100.0%
Aguada Municipio	36,691	100.0%	100.0%	100.0%				
Aguadilla Municipio	50,222	100.0%	100.0%	100.0%	43	100.0%	100.0%	100.0%
Aguas Buenas Municipio	22,013	100.0%	100.0%	100.0%	2,801	100.0%	100.0%	100.0%
Aibonito Municipio	19,420	100.0%	100.0%	100.0%	2,688	100.0%	100.0%	100.0%
Arecibo Municipio	74,416	100.0%	99.8%	99.8%	7,550	100.0%	100.0%	100.0%
Arroyo Municipio	16,537	100.0%	100.0%	100.0%	701	100.0%	100.0%	100.0%
Añasco Municipio	22,433	100.0%	100.0%	100.0%	3,727	100.0%	100.0%	100.0%
Barceloneta Municipio	23,194	100.0%	99.7%	99.7%	533	100.0%	100.0%	100.0%
Barranquitas Municipio	26,813	100.0%	100.0%	100.0%	911	100.0%	100.0%	100.0%
Bayamón Municipio	169,245	100.0%	100.0%	100.0%	24	100.0%	100.0%	100.0%
Cabo Rojo Municipio	45,155	100.0%	99.8%	99.8%	2,360	100.0%	99.9%	99.9%
Caguas Municipio	123,497	100.0%	100.0%	100.0%	1,109	100.0%	100.0%	100.0%
Camuy Municipio	26,453	100.0%	100.0%	100.0%	4,051	100.0%	100.0%	100.0%
Canóvanas Municipio	43,594	100.0%	100.0%	100.0%	1,078	100.0%	100.0%	100.0%
Carolina Municipio	146,694	100.0%	100.0%	100.0%	290	100.0%	100.0%	100.0%

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Cataño Municipio	23,117	100.0%	100.0%	100.0%	4	100.0%	0.0%	0.0%
Cayey Municipio	38,021	100.0%	100.0%	100.0%	4,388	100.0%	100.0%	100.0%
Ceiba Municipio	9,799	100.0%	100.0%	100.0%	1,105	100.0%	100.0%	100.0%
Ciales Municipio	9,335	100.0%	100.0%	100.0%	6,473	100.0%	99.6%	99.6%
Cidra Municipio	36,789	100.0%	100.0%	100.0%	1,518	100.0%	100.0%	100.0%
Coamo Municipio	30,738	100.0%	100.0%	100.0%	7,593	100.0%	100.0%	100.0%
Comerío Municipio	16,180	100.0%	100.0%	100.0%	2,467	100.0%	100.0%	100.0%
Corozal Municipio	30,439	100.0%	100.0%	100.0%	1,854	100.0%	100.0%	100.0%
Culebra Municipio					1,714	100.0%	99.3%	99.3%
Dorado Municipio	36,125	100.0%	100.0%	100.0%	13	100.0%	100.0%	100.0%
Fajardo Municipio	28,664	100.0%	100.0%	100.0%	790	100.0%	100.0%	100.0%
Florida Municipio	9,353	100.0%	100.0%	100.0%	1,964	100.0%	100.0%	100.0%
Guayama Municipio	35,480	100.0%	100.0%	100.0%	3,985	100.0%	99.9%	99.9%
Guayanilla Municipio	15,467	100.0%	99.6%	99.6%	2,156	80.4%	96.8%	80.4%
Guaynabo Municipio	83,715	100.0%	100.0%	100.0%	13	100.0%	100.0%	100.0%
Gurabo Municipio	46,901	100.0%	100.0%	100.0%	192	100.0%	100.0%	100.0%
Guánica Municipio	14,041	100.0%	100.0%	100.0%	1,342	100.0%	100.0%	100.0%
Hatillo Municipio	35,103	100.0%	100.0%	100.0%	4,113	100.0%	100.0%	100.0%
Hormigueros Municipio	15,481	100.0%	100.0%	100.0%	37	100.0%	100.0%	100.0%
Humacao Municipio	50,366	100.0%	99.9%	99.9%	285	100.0%	100.0%	100.0%
Isabela Municipio	37,676	100.0%	100.0%	100.0%	2,747	100.0%	100.0%	100.0%
Jayuya Municipio	9,270	100.0%	100.0%	100.0%	4,621	100.0%	98.4%	98.4%
Juana Díaz Municipio	42,159	100.0%	100.0%	100.0%	2,519	100.0%	100.0%	100.0%
Juncos Municipio	36,887	100.0%	100.0%	100.0%	1,266	100.0%	100.0%	100.0%
Lajas Municipio	17,777	100.0%	100.0%	100.0%	4,233	100.0%	100.0%	100.0%
Lares Municipio	17,725	100.0%	100.0%	100.0%	6,551	100.0%	99.5%	99.5%
Las Marías Municipio	2,657	100.0%	100.0%	100.0%	5,270	100.0%	100.0%	100.0%
Las Piedras Municipio	36,052	100.0%	100.0%	100.0%	949	100.0%	100.0%	100.0%
Loíza Municipio	24,332	100.0%	99.9%	99.9%	221	100.0%	100.0%	100.0%

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Luquillo Municipio	15,926	100.0%	100.0%	100.0%	1,739	100.0%	100.0%	100.0%
Manatí Municipio	34,448	100.0%	100.0%	100.0%	2,839	100.0%	99.9%	99.9%
Maricao Municipio	2,367	100.0%	100.0%	100.0%	3,063	100.0%	100.0%	100.0%
Maunabo Municipio	7,742	99.2%	98.7%	97.9%	2,579	99.7%	100.0%	99.7%
Mayagüez Municipio	68,447	100.0%	100.0%	100.0%	3,083	100.0%	99.7%	99.7%
Moca Municipio	30,473	100.0%	100.0%	100.0%	4,418	100.0%	100.0%	100.0%
Morovis Municipio	26,742	100.0%	100.0%	100.0%	3,593	100.0%	100.0%	100.0%
Naguabo Municipio	23,463	100.0%	100.0%	100.0%	2,296	100.0%	100.0%	100.0%
Naranjito Municipio	27,348	100.0%	100.0%	100.0%				
Orocovis Municipio	12,619	100.0%	100.0%	100.0%	7,601	100.0%	100.0%	100.0%
Patillas Municipio	12,140	99.5%	99.8%	99.3%	4,071	65.4%	99.8%	65.4%
Peñuelas Municipio	16,194	99.9%	100.0%	99.9%	3,055	99.0%	100.0%	99.0%
Ponce Municipio	124,850	100.0%	100.0%	100.0%	7,031	100.0%	100.0%	100.0%
Quebradillas Municipio	21,013	100.0%	100.0%	100.0%	1,905	100.0%	100.0%	100.0%
Rincón Municipio	13,655	100.0%	98.8%	98.8%				
Río Grande Municipio	46,630	100.0%	100.0%	100.0%	1,395	100.0%	100.0%	100.0%
Sabana Grande Municipio	19,783	100.0%	100.0%	100.0%	1,929	100.0%	100.0%	100.0%
Salinas Municipio	23,618	100.0%	100.0%	100.0%	3,509	100.0%	100.0%	100.0%
San Germán Municipio	27,196	100.0%	100.0%	100.0%	3,031	100.0%	100.0%	100.0%
San Juan Municipio	318,441	100.0%	100.0%	100.0%				
San Lorenzo Municipio	31,796	100.0%	100.0%	100.0%	4,193	100.0%	100.0%	100.0%
San Sebastián Municipio	30,845	100.0%	100.0%	100.0%	4,683	100.0%	100.0%	100.0%
Santa Isabel Municipio	18,235	100.0%	100.0%	100.0%	2,971	100.0%	100.0%	100.0%
Toa Alta Municipio	72,020	100.0%	100.0%	100.0%				
Toa Baja Municipio	74,271	100.0%	100.0%	100.0%				
Trujillo Alto Municipio	63,674	100.0%	100.0%	100.0%				

	Urban Areas				Rural Areas			
County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Both
Utuado Municipio	13,846	100.0%	100.0%	100.0%	13,549	100.0%	98.3%	98.3%
Vega Alta Municipio	35,353	100.0%	100.0%	100.0%	708	100.0%	100.0%	100.0%
Vega Baja Municipio	47,971	100.0%	100.0%	100.0%	2,052	100.0%	100.0%	100.0%
Vieques Municipio	7,334	100.0%	99.4%	99.4%	1,052	98.5%	100.0%	98.5%
Villalba Municipio	18,125	100.0%	100.0%	100.0%	3,247	100.0%	100.0%	100.0%
Yabucoa Municipio	27,372	100.0%	100.0%	100.0%	4,908	88.5%	100.0%	88.5%
Yauco Municipio	26,812	100.0%	100.0%	100.0%	6,763	100.0%	98.5%	98.5%
U.S. Virgin Isl.	**99,681**	**100.0%**	**98.3%**	**98.3%**	**6,554**	**100.0%**	**93.5%**	**93.5%**
St. Croix Island	45,890	100.0%	100.0%	100.0%	4,630	100.0%	96.8%	96.8%
St. John Island	3,066	100.0%	92.1%	92.1%	1,097	100.0%	83.8%	83.8%
St. Thomas Island	50,725	100.0%	97.3%	97.3%	827	100.0%	88.3%	88.3%

APPENDIX F

Deployment of Fixed Terrestrial 25/3 Mbps and/or Mobile 4G LTE with a Minimum Advertised Speed of 5/1 Mbps on Tribal Lands (December 31, 2019)

		Fixed 25/3 Mbps		Mobile 4G LTE 5/1 Mbps		Fixed 25/3 Mbps and Mobile 4G LTE 5/1 Mbps		Fixed 25/3 Mbps or Mobile 4G LTE 5/1 Mbps	
	Pop. Eval.	Pop.	% of Pop.	Pop.	% of Pop.	Pop.	% of Pop.	Pop.	% of Pop.
All Tribal Lands	4,052,294	3,203,417	79.1%	3,959,326	97.7%	3,195,551	78.9%	3,967,192	97.9%
Alaskan Villages	267,067	186,618	69.9%	208,209	78.0%	185,025	69.3%	209,802	78.6%
Hawaiian Home Lands	33,944	31,624	93.2%	33,913	99.9%	31,595	93.1%	33,942	100.0%
Lower 48 States	1,134,330	763,250	67.3%	1,104,103	97.3%	757,942	66.8%	1,109,411	97.8%
Alabama	283	1	0.4%	283	100.0%	1	0.4%	283	100.0%
Alaska	1,431	0	0.0%	1,401	97.9%	0	0.0%	1,401	97.9%
Arizona	209,163	79,055	37.8%	186,798	89.3%	76,975	36.8%	188,878	90.3%
California	74,045	55,825	75.4%	72,716	98.2%	55,688	75.2%	72,853	98.4%
Colorado	16,783	14,180	84.5%	16,759	99.9%	14,180	84.5%	16,759	99.9%
Connecticut	354	332	93.8%	354	100.0%	332	93.8%	354	100.0%
Florida	5,252	4,192	79.8%	5,252	100.0%	4,192	79.8%	5,252	100.0%
Idaho	34,960	22,146	63.3%	34,590	98.9%	22,057	63.1%	34,679	99.2%
Iowa	921	513	55.7%	921	100.0%	513	55.7%	921	100.0%
Kansas	5,596	4,661	83.3%	5,596	100.0%	4,661	83.3%	5,596	100.0%
Louisiana	769	748	97.3%	769	100.0%	748	97.3%	769	100.0%
Maine	2,374	2,196	92.5%	2,370	99.8%	2,196	92.5%	2,370	99.8%
Massachusetts	75	73	97.3%	75	100.0%	73	97.3%	75	100.0%
Michigan	34,504	33,816	98.0%	34,504	100.0%	33,816	98.0%	34,504	100.0%
Minnesota	39,893	34,317	86.0%	39,720	99.6%	34,152	85.6%	39,885	100.0%
Mississippi	6,889	5,396	78.3%	6,889	100.0%	5,396	78.3%	6,889	100.0%
Montana	69,701	46,811	67.2%	68,103	97.7%	45,747	65.6%	69,167	99.2%
Nebraska	8,661	5,103	58.9%	8,658	100.0%	5,103	58.9%	8,658	100.0%
Nevada	14,680	7,483	51.0%	14,413	98.2%	7,480	51.0%	14,416	98.2%
New Mexico	147,954	80,160	54.2%	146,113	98.8%	78,983	53.4%	147,290	99.6%
New York	13,330	10,859	81.5%	13,330	100.0%	10,859	81.5%	13,330	100.0%

	Pop. Eval.	Fixed 25/3 Mbps		Mobile 4G LTE 5/1 Mbps		Fixed 25/3 Mbps and Mobile 4G LTE 5/1 Mbps		Fixed 25/3 Mbps or Mobile 4G LTE 5/1 Mbps	
		Pop.	% of Pop.	Pop.	% of Pop.	Pop.	% of Pop.	Pop.	% of Pop.
North Carolina	9,283	4,266	46.0%	9,283	100.0%	4,266	46.0%	9,283	100.0%
North Dakota	23,576	22,738	96.4%	23,548	99.9%	22,728	96.4%	23,558	99.9%
Oklahoma	89,012	66,653	74.9%	88,984	100.0%	66,653	74.9%	88,984	100.0%
Oregon	9,746	8,499	87.2%	9,699	99.5%	8,495	87.2%	9,703	99.6%
Rhode Island	3	2	66.7%	3	100.0%	2	66.7%	3	100.0%
South Carolina	1,054	1,054	100.0%	1,054	100.0%	1,054	100.0%	1,054	100.0%
South Dakota	64,880	49,533	76.3%	64,522	99.4%	49,249	75.9%	64,806	99.9%
Texas	1,946	1,685	86.6%	1,946	100.0%	1,685	86.6%	1,946	100.0%
Utah	37,538	20,109	53.6%	36,968	98.5%	20,105	53.6%	36,972	98.5%
Washington	143,570	127,623	88.9%	142,443	99.2%	127,375	88.7%	142,691	99.4%
Wisconsin	40,248	34,023	84.5%	40,240	100.0%	34,021	84.5%	40,242	100.0%
Wyoming	25,856	19,198	74.2%	25,799	99.8%	19,157	74.1%	25,840	99.9%
Tribal Statistical Areas	2,616,953	2,221,925	84.9%	2,613,101	99.9%	2,220,989	84.9%	2,614,037	99.9%
California	3,096	3,095	100.0%	3,096	100.0%	3,095	100.0%	3,096	100.0%
New York	2,711	2,662	98.2%	2,711	100.0%	2,662	98.2%	2,711	100.0%
Oklahoma	2,569,873	2,175,609	84.7%	2,566,044	99.9%	2,174,695	84.6%	2,566,958	99.9%
Washington	41,273	40,559	98.3%	41,250	99.9%	40,537	98.2%	41,272	100.0%

APPENDIX G

Adoption Rate for Fixed Terrestrial Services in the United States and U.S. Territories (December 31, 2019)[6]

	10/1 Mbps	25/3 Mbps	50/5 Mbps	100/10 Mbps	250/25 Mbps
United States	76.6%	68.9%	64.2%	50.4%	9.0%
Alabama	62.8%	56.4%	50.9%	45.7%	5.4%
Alaska	70.4%	54.9%	55.8%	*	*
American Samoa	*	*	*	*	NA
Arizona	77.6%	72.2%	57.5%	50.5%	15.2%
Arkansas	55.3%	48.9%	40.3%	32.6%	12.9%
California	83.2%	74.1%	70.1%	51.3%	6.5%
Colorado	79.1%	73.2%	68.0%	36.1%	7.7%
Connecticut	83.6%	71.0%	67.1%	48.4%	8.2%
Delaware	92.7%	90.0%	89.2%	53.1%	14.8%
District of Columbia	87.9%	83.0%	81.8%	54.0%	*
Florida	91.1%	80.7%	75.9%	63.2%	6.0%
Georgia	76.6%	65.6%	60.1%	50.5%	10.0%
Guam	*	*	*	*	*
Hawaii	*	*	*	*	*
Idaho	59.6%	48.8%	37.0%	29.6%	5.5%
Illinois	74.0%	60.4%	57.8%	46.1%	3.4%
Indiana	68.3%	56.5%	52.5%	43.6%	4.9%
Iowa	61.3%	54.1%	47.6%	31.0%	4.9%
Kansas	69.6%	58.6%	51.6%	46.1%	14.7%
Kentucky	65.6%	58.3%	51.4%	44.6%	5.9%
Louisiana	64.0%	57.6%	49.5%	43.9%	12.7%
Maine	76.8%	62.6%	56.7%	53.0%	0.5%
Maryland	89.0%	84.0%	83.4%	51.5%	*
Massachusetts	89.2%	86.7%	85.2%	53.0%	10.7%
Michigan	72.4%	62.7%	58.1%	49.2%	2.3%
Minnesota	71.0%	64.5%	59.1%	37.1%	5.3%

[6] NA: Service is not available in this area; * Data no included to maintain confidentiality.

	10/1 Mbps	25/3 Mbps	50/5 Mbps	100/10 Mbps	250/25 Mbps
Mississippi	50.4%	39.7%	32.7%	26.4%	5.1%
Missouri	65.1%	57.1%	55.5%	50.0%	9.7%
Montana	65.6%	60.1%	57.3%	*	5.3%
N. Mariana Isl.	*	*	*	*	NA
Nebraska	71.7%	62.2%	53.6%	52.1%	14.9%
Nevada	84.3%	75.3%	62.8%	60.2%	15.7%
New Hampshire	89.4%	83.4%	81.4%	45.8%	7.1%
New Jersey	89.6%	87.2%	85.6%	64.3%	20.2%
New Mexico	55.7%	50.1%	45.5%	22.4%	3.0%
New York	81.9%	77.3%	74.3%	68.2%	13.5%
North Carolina	76.2%	71.4%	66.1%	60.2%	7.3%
North Dakota	79.0%	73.6%	67.0%	60.4%	6.9%
Ohio	73.9%	63.0%	53.0%	48.7%	5.6%
Oklahoma	62.0%	53.3%	47.9%	42.3%	16.2%
Oregon	75.4%	70.2%	65.3%	37.8%	5.2%
Pennsylvania	77.3%	72.7%	68.8%	43.5%	9.7%
Puerto Rico	29.5%	16.6%	12.9%	*	0.4%
Rhode Island	89.0%	86.4%	78.4%	72.1%	*
South Carolina	77.8%	69.3%	62.8%	58.0%	6.8%
South Dakota	74.4%	70.4%	61.6%	56.9%	4.6%
Tennessee	70.5%	61.5%	58.3%	50.4%	11.4%
Texas	75.7%	67.0%	62.1%	50.5%	12.5%
U.S. Virgin Isl.	*	*	*	*	*
Utah	78.5%	70.0%	66.1%	34.3%	10.1%
Vermont	75.3%	64.2%	62.3%	34.0%	7.5%
Virginia	78.4%	75.0%	72.5%	53.4%	18.8%
Washington	79.2%	74.1%	71.0%	37.8%	5.6%
West Virginia	51.7%	49.4%	48.5%	33.5%	12.7%
Wisconsin	73.3%	64.4%	59.0%	55.4%	2.7%
Wyoming	67.4%	63.1%	53.5%	49.6%	0.5%

APPENDIX H

Deployment (Millions) of Fixed Services (includes Satellite) at Different Speed Tiers in the United States (December 31, 2019)[7]

	2015		2016		2017		2018		2019	
Area	**Pop.**	**%**	**Pop.**	**%**	**Pop.**	**%**	**Pop.**	**%**	**Pop.**	**%**
10/1 Mbps										
United States	320.28	100.0%	322.51	100.0%	325.62	100.0%	327.10	100.0%	328.17	100.0%
Rural Areas	62.261	100.0%	62.926	100.0%	63.710	99.9%	64.447	99.9%	65.053	100.0%
Urban Areas	258.02	100.0%	259.59	100.0%	261.91	100.0%	262.65	100.0%	263.12	100.0%
Tribal Lands	3.964	100.0%	3.991	100.0%	3.945	98.2%	3.991	98.8%	4.034	99.6%
25/3 Mbps										
United States	287.85	89.9%	307.63	95.4%	325.61	100.0%	327.08	100.0%	328.13	100.0%
Rural Areas	38.271	61.5%	50.997	81.0%	63.699	99.9%	64.434	99.9%	65.015	99.9%
Urban Areas	249.58	96.7%	256.64	98.9%	261.91	100.0%	262.65	100.0%	263.11	100.0%
Tribal Lands	2.290	57.8%	3.110	77.9%	3.942	98.1%	3.980	98.5%	3.994	98.6%
50/5 Mbps										
United States	283.32	88.5%	291.26	90.3%	298.24	91.6%	303.26	92.7%	307.73	93.8%
Rural Areas	35.316	56.7%	39.147	62.2%	42.312	66.3%	45.569	70.6%	48.742	74.9%
Urban Areas	248.01	96.1%	252.11	97.1%	255.93	97.7%	257.69	98.1%	258.99	98.4%
Tribal Lands	2.116	53.4%	2.269	56.9%	2.462	61.3%	2.639	65.3%	2.799	69.1%
100/10Mbps										
United States	215.58	67.3%	244.11	75.7%	288.49	88.6%	296.24	90.5%	300.93	91.7%
Rural Areas	20.481	32.9%	25.781	41.0%	37.223	58.4%	40.390	62.6%	43.476	66.8%
Urban Areas	195.10	75.6%	218.32	84.1%	251.27	95.9%	255.85	97.4%	257.45	97.8%
Tribal Lands	1.669	42.1%	1.875	47.0%	2.198	54.7%	2.420	59.9%	2.582	63.7%
250/25 Mbps										
United States	67.912	21.2%	140.57	43.6%	190.04	58.3%	280.16	85.6%	286.18	87.2%
Rural Areas	5.460	8.8%	9.871	15.7%	17.991	28.2%	33.267	51.6%	36.209	55.6%
Urban Areas	62.452	24.2%	130.70	50.4%	172.05	65.7%	246.89	94.0%	249.97	95.0%
Tribal Lands	0.276	7.0%	1.330	33.3%	1.604	39.9%	1.837	45.5%	2.011	49.6%
Pop. Evaluated	320.28	100.0%	322.51	100.0%	325.71	100.0%	327.16	100.0%	328.21	100.0%

[7] Appendix H presents deployment estimates for all fixed services, including satellite. Unless stated otherwise, the remainder of our analysis is based on all fixed terrestrial services, which do not include satellite.

APPENDIX I

Deployment (Millions) of Fixed Wired Services at Different Speed Tiers in the United States (December 31, 2019)

	2015		2016		2017		2018		2019	
Area	**Pop.**	**%**	**Pop.**	**%**	**Pop.**	**%**	**Pop.**	**%**	**Pop.**	**%**
10/1 Mbps										
United States	295.639	92.3%	301.034	93.3%	307.556	94.4%	309.997	94.8%	311.314	94.9%
Rural Areas	43.614	70.1%	46.200	73.4%	49.652	77.8%	51.210	79.4%	52.241	80.3%
Urban Areas	252.025	97.7%	254.834	98.2%	257.904	98.5%	258.787	98.5%	259.072	98.5%
Tribal Lands	2.703	68.2%	2.855	71.5%	3.007	74.8%	3.143	77.8%	3.208	79.2%
25/3 Mbps										
United States	284.142	88.7%	291.675	90.4%	298.590	91.7%	301.943	92.3%	304.341	92.7%
Rural Areas	35.817	57.5%	39.035	62.0%	42.467	66.6%	44.508	69.0%	46.358	71.2%
Urban Areas	248.325	96.2%	252.640	97.3%	256.123	97.8%	257.435	98.0%	257.983	98.0%
Tribal Lands	2.230	56.3%	2.375	59.5%	2.564	63.8%	2.685	66.5%	2.847	70.3%
50/5 Mbps										
United States	281.713	88.0%	289.310	89.7%	296.285	91.0%	299.407	91.5%	302.703	92.2%
Rural Areas	34.480	55.4%	37.793	60.1%	40.965	64.2%	42.652	66.1%	45.029	69.2%
Urban Areas	247.234	95.8%	251.517	96.9%	255.320	97.5%	256.755	97.8%	257.674	97.9%
Tribal Lands	2.091	52.7%	2.236	56.0%	2.410	60.0%	2.528	62.6%	2.650	65.4%
100/10 Mbps										
United States	214.347	66.9%	242.304	75.1%	286.842	88.1%	294.496	90.0%	298.097	90.8%
Rural Areas	20.063	32.2%	24.936	39.6%	36.264	56.9%	39.181	60.7%	41.587	63.9%
Urban Areas	194.284	75.3%	217.367	83.7%	250.577	95.7%	255.314	97.2%	256.510	97.5%
Tribal Lands	1.669	42.1%	1.841	46.1%	2.178	54.2%	2.375	58.8%	2.497	61.6%
250/25 Mbps										
United States	64.595	20.2%	139.721	43.3%	189.263	58.1%	279.666	85.5%	284.823	86.8%
Rural Areas	5.316	8.5%	9.762	15.5%	17.670	27.7%	33.034	51.2%	35.463	54.5%
Urban Areas	59.279	23.0%	129.960	50.1%	171.593	65.5%	246.632	93.9%	249.360	94.8%
Tribal Lands	0.276	7.0%	1.305	32.7%	1.602	39.9%	1.827	45.2%	1.965	48.5%
Pop. Evaluated	320.289	100.0%	322.518	100.0%	325.716	100.0%	327.167	100.0%	328.210	100.0%

STATEMENT OF
COMMISSIONER BRENDAN CARR

Re: *Inquiry Concerning Deployment of Advanced Telecommunications Capability to All Americans in a Reasonable and Timely Fashion*, GN Docket No. 20-269.

Since 2017, the FCC's top priority has been to close the digital divide. And today's report confirms that our efforts have enabled the private sector to build out high-speed Internet infrastructure at an unprecedented pace. Indeed, the digital divide has nearly been cut in half since the end of 2016. All of these new connections have been enabled by common sense reforms to our infrastructure rules—reforms that allowed the private sector to build a record-breaking 46,000 new cell sites in 2019 alone, which is more than the combined number of sites previously built from 2015 through 2018. The FCC also worked tirelessly to free up the airwaves needed to power these new cell sites. Indeed, the Commission has recently made more than six gigahertz of spectrum available for licensed 5G services in addition to thousands of megahertz of unlicensed spectrum.

I am grateful for the chance to have led the FCC's wireless infrastructure reforms over the past three years, and I hope that the Commission continues to advance the proven and successful approaches to infrastructure and spectrum that are now delivering results in communities across the country.

STATEMENT OF
COMMISSIONER JESSICA ROSENWORCEL,
DISSENTING

Re: *Inquiry Concerning Deployment of Advanced Telecommunications Capability to All Americans in a Reasonable and Timely Fashion*, GN Docket No. 20-269.

We are in the middle of a pandemic. So much of modern life has migrated online. As a result, it has become painfully clear there are too many people in the United States who lack access to broadband. In fact, if this crisis has revealed anything, it is the hard truth that the digital divide is very real and very big.

So it confounds logic that *today* the FCC decides to release a report that says that broadband is being deployed to *all* Americans in a reasonable and timely fashion.

If you want evidence this is not right, it's all around us. There are people sitting in parking lots using free Wi-Fi signals because they have no other way to get online. There are students who fall in the homework gap because the lack the high-speed service they need to participate in remote learning. There are mayors in towns across the country clamoring for better broadband so their communities have a fair shot at digital age success. Across the country there are state authorities developing new plans, maps, and initiatives at the behest of their residents. Then there's Congress, which took its cues from all of this, and just passed legislation committing $7 billion to new nationwide broadband efforts—and more is likely to come.

What I take from all of this activity is that the job is not done. There is progress. But we have not yet reached all Americans. We have real work to do before we can claim that 100% of this country has access to broadband service. I dissent.

STATEMENT OF
COMMISSIONER GEOFFREY STARKS

Re: *Inquiry Concerning Deployment of Advanced Telecommunications Capability to All Americans in a Reasonable and Timely Fashion*, GN Docket No. 20-269.

Over the last two years, I have decried the unwarranted victory laps these reports seem to spawn. Now—as tens of millions of Americans find themselves unable to access online school, work, and healthcare during the pandemic—patting ourselves on the back is particularly unseemly. My views on the flaws in the data and analysis underlying this Report are well documented, and I will not repeat them here. But I am compelled to note that this Report should not have been released at all. After the election in November, congressional leaders wrote to Chairman Pai to demand that the Commission stop work on all partisan and controversial items during the presidential transition. This item is both.

Nonetheless, Chairman Pai declined to withdraw the Report as Commissioner Rosenworcel and I requested. His rationale—that the Report has no legal significance—is plainly inconsistent with the Telecommunications Act, which directs the Commission to take "immediate action" if it determines that advanced telecommunications capability is not being deployed to all Americans on a reasonable and timely basis. That determination should have been left to the next administration, which could have addressed the question before the statutory deadline. For this reason and the substantive reasons I outlined at the Notice of Inquiry stage, I dissent.