

# **Internet Access Services: Status as of June 30, 2025**

Industry Analysis Division  
Office of Economics and Analytics  
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## INTRODUCTION

This report summarizes information about Internet access in the United States as of June 30, 2025, as collected by FCC Form 477 and the Broadband Data Collection (BDC). For purposes of this report, Internet access is defined as a service that allows information to be sent to or received from the Internet with a speed of at least 200 kilobits per second. See the Technical Notes at the end of this report for more-detailed information about these data collections and the meaning of terms used in this report.

Section 1 of this report presents an overview of the information collected by FCC Form 477 and the BDC. Section 2 of this report presents statistics on Internet access availability and the remainder of the report includes data on total and residential Internet access connections by downstream and upstream speed, by technology, by geography, and over time. Section 3 of the report presents nationwide statistics, Section 4 provides state-level data, and Section 5 includes data on the subscribership differences among counties and census tracts.<sup>1</sup> In addition, Section 6 of the report includes an analysis of the correlations between subscribership ratios and various demographic measures.

The National Broadband Map displays where internet access services are available across the United States and can be viewed online at [broadbandmap.fcc.gov](https://broadbandmap.fcc.gov). Additional maps depicting the number of fixed connections per 1,000 households by census tract are available online at [fcc.gov/internet-access-services-reports](https://fcc.gov/internet-access-services-reports). Other publicly available data that are too voluminous to include in this report are available online at [fcc.gov/general/fcc-form-477-additional-data](https://fcc.gov/general/fcc-form-477-additional-data).

<sup>1</sup> The Commission began collecting census tract-level data for data as of December 31, 2008. See *High-Speed Services for Internet Access: Status as of December 31, 2008* (February 2010) at 1-4, available at [fcc.gov/encyclopedia/high-speed-services-internet-access-reports](https://fcc.gov/encyclopedia/high-speed-services-internet-access-reports) (December 2008 High-Speed Report).

**SECTION 1  
OVERVIEW & HIGHLIGHTS**

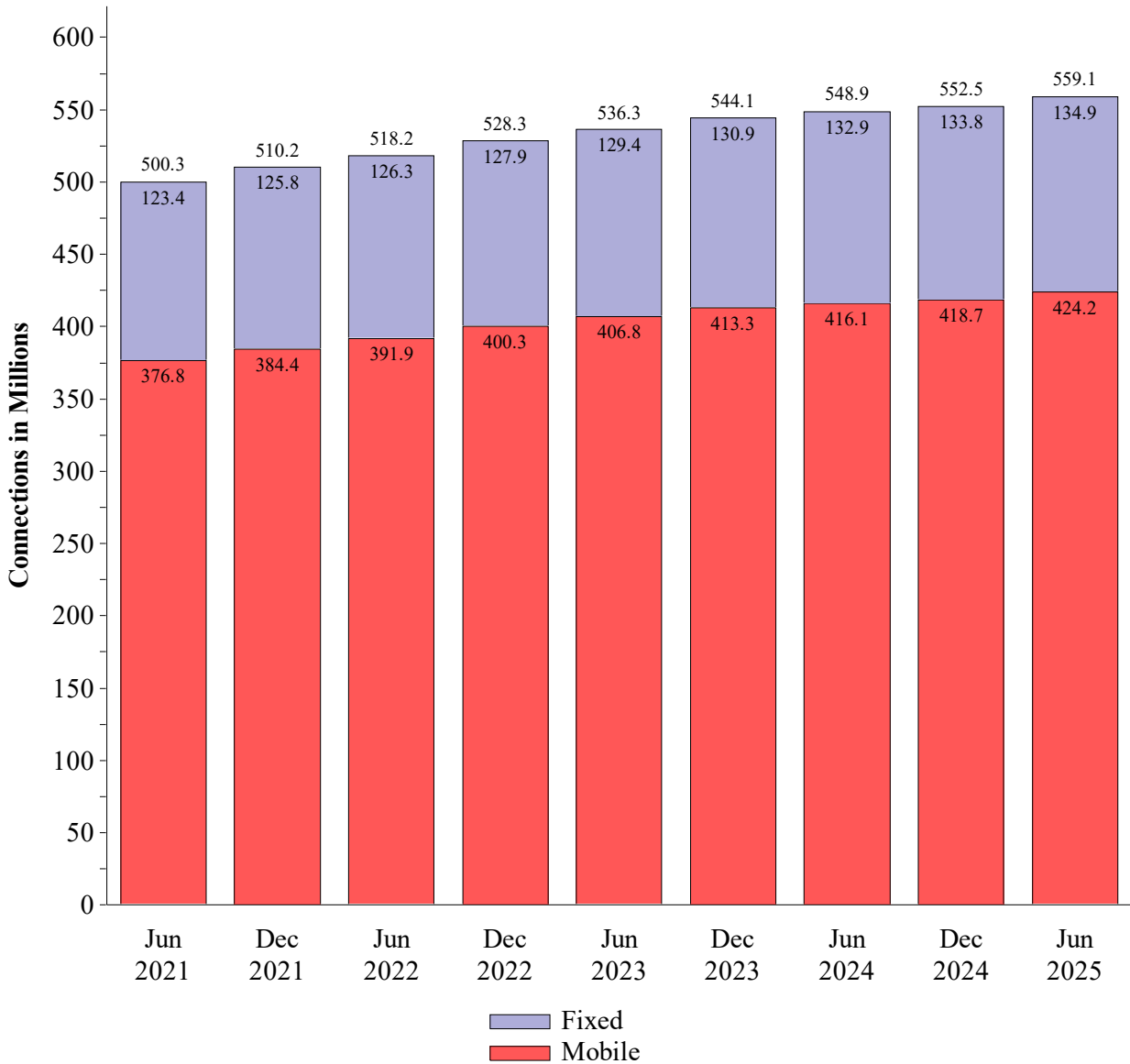
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## Total Connections

As shown in Figure 1, total connections increased by about 1.9% between June 2024 and June 2025 to 559 million. Mobile connections increased 1.9% year-over-year to 424 million in June 2025, while fixed connections grew to 135 million – up about 1.6% from June 2024.

**Figure 1**  
**Fixed and Mobile Connections 2021-2025**

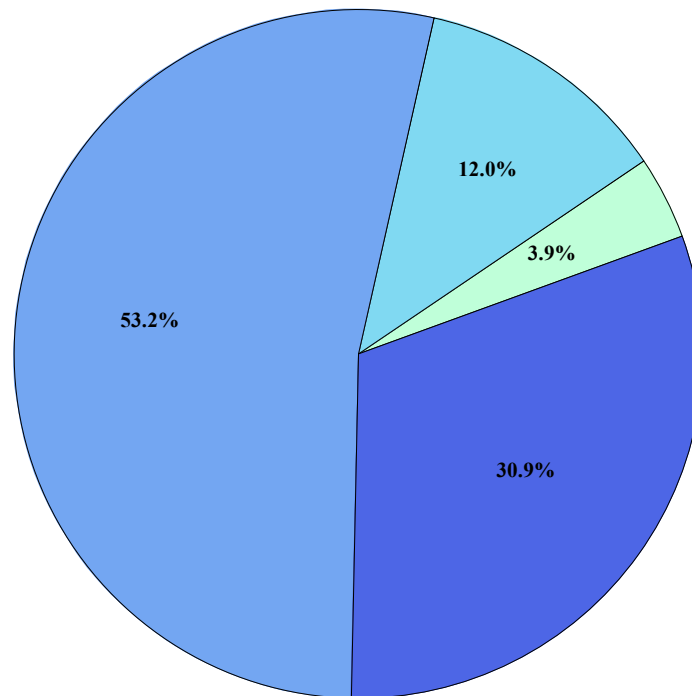


Note: Some previously published data may have been revised. Numbers may not sum to totals due to rounding.  
Source: FCC Form 477.

## Fixed Connections - Downstream Speeds

Figure 2(a) illustrates how the 135 million fixed connections reported for June 2025 were distributed across four groups of downstream speeds defined by breakpoints at 25 Mbps, 100 Mbps, and 940 Mbps. See Figure 14 for more detail.

**Figure 2(a)**  
**Distribution of Fixed Connections by Downstream Speed**  
**as of June 30, 2025**



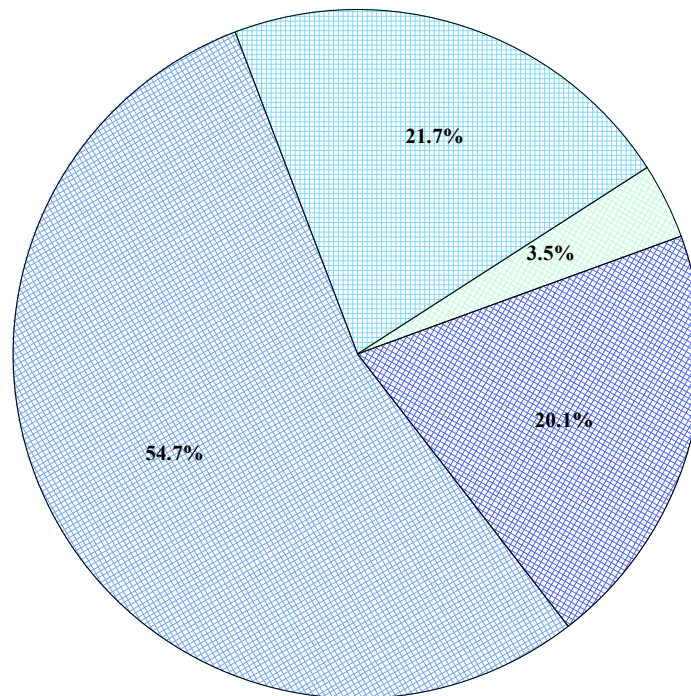
Downstream Speed	Percentage
Less than 25 Mbps (5.3 million)	3.9%
At least 25 Mbps & less than 100 Mbps (16.2 million)	12.0%
At least 100 Mbps & less than 940 Mbps (71.8 million)	53.2%
At least 940 Mbps (41.7 million)	30.9%

Note: Numbers may not sum to total due to rounding.  
Source: FCC Form 477.

## Fixed Connections - Upstream Speeds

Figure 2(b) illustrates how the 135 million fixed connections reported for June 2025 were distributed across four groups of upstream speeds defined by breakpoints at 3 Mbps, 20 Mbps, and 500 Mbps. See Figure 14 for more detail.

**Figure 2(b)**  
**Distribution of Fixed Connections by Upstream Speed**  
**as of June 30, 2025**

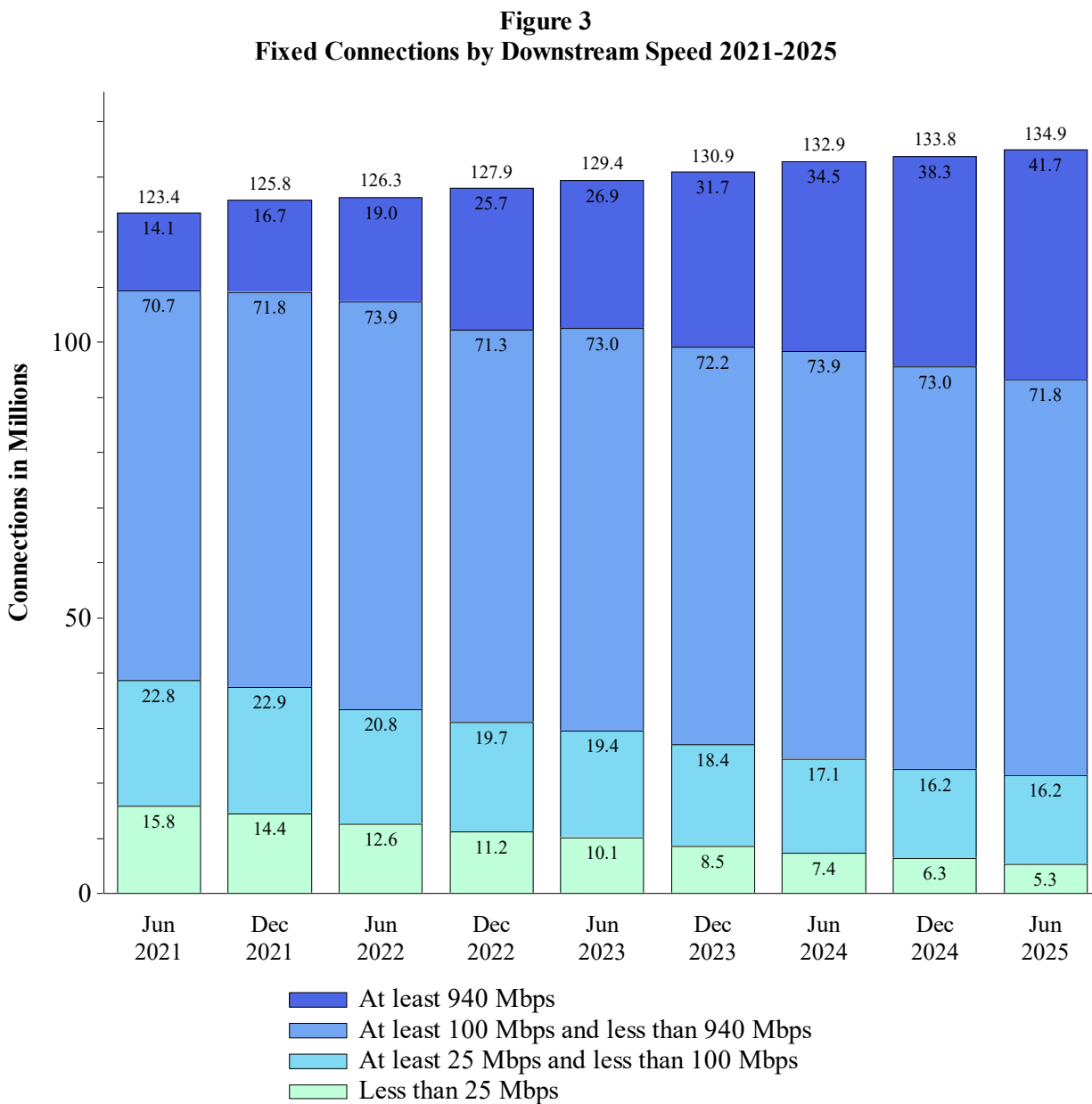


Upstream Speed	Less than 3 Mbps (4.8 million)
	At least 3 Mbps & less than 20 Mbps (29.2 million)
	At least 20 Mbps & less than 500 Mbps (73.8 million)
	At least 500 Mbps (27.1 million)

Note: Numbers may not sum to total due to rounding.  
Source: FCC Form 477.

## Fixed Connections - Downstream Speed Over Time

Figure 3 illustrates how the composition of total fixed connections by different downstream speed groups has changed from 2021 to 2025.



Note: Some previously published data may have been revised. Numbers may not sum to totals due to rounding.  
Source: FCC Form 477.

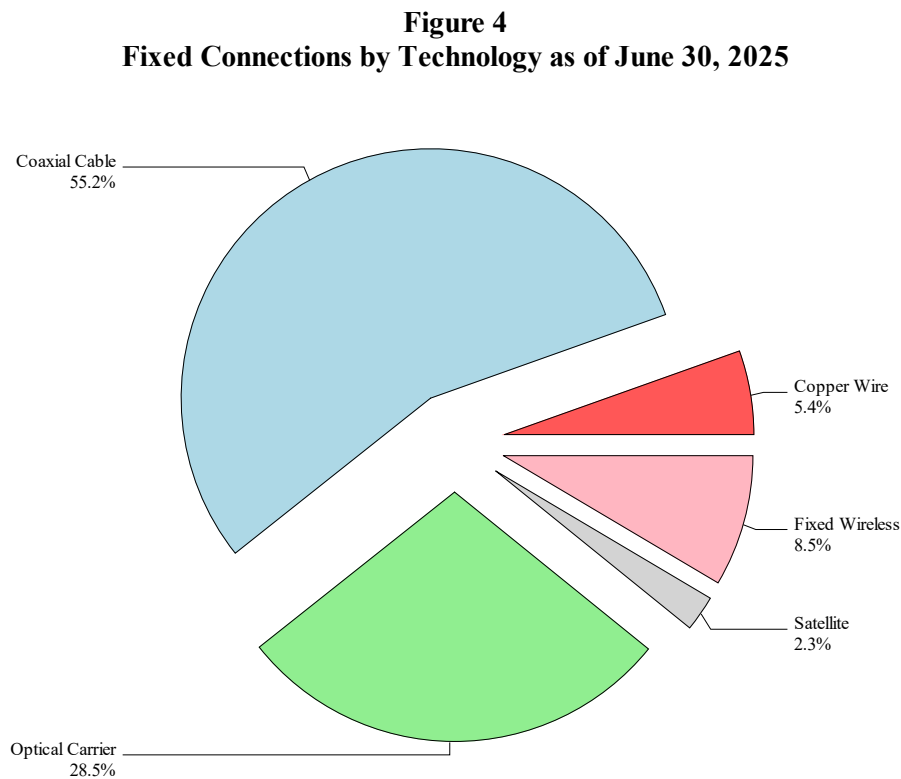
The percentage of fixed connections with a downstream speed of at least 100 Mbps has grown from 69% (or 85 million connections) in June 2021 to 84% (or 113 million connections) in June 2025. Over the same period, the percentage of fixed connections with downstream speeds of less than 25 Mbps has decreased from 13% (or 16 million connections) in June 2021 to about 4% (or about 5 million connections) in June 2025.

## Fixed Connections by Technology

In addition to bandwidths, Form 477 also collects the technology used to deliver services to the end-user's location. Beginning with data as of June 30, 2022, Form 477 classifies all fixed connections into six mutually exclusive technology categories:

- Copper Wire
- Coaxial Cable (hybrid fiber-coaxial)
- Optical Carrier (fiber to the premises)
- Satellite
- Fixed Wireless
- Other

Figure 4 illustrates how fixed connections are distributed across technologies for data as of June 2025. Throughout this report, connections reported as 'Other' are aggregated with the 'Copper Wire' category for confidentiality reasons and for ease of reporting. See Technical Notes at the end of this report for a description of each technology and how these categories have changed over time.

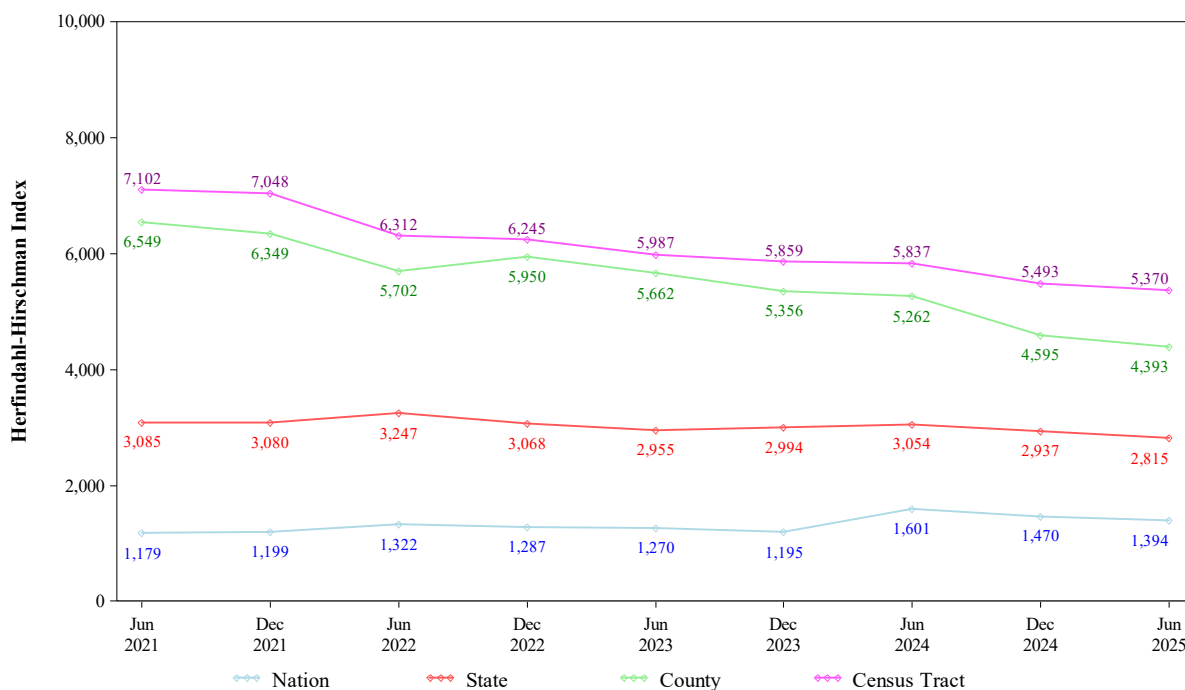


Note: Other is summarized with Copper Wire for confidentiality reasons.  
Source: FCC Form 477.

## Concentration by Geography

Figure 5 presents the national, median state-, median county-, and median tract-level Herfindahl-Hirschman Index (HHI) for residential fixed connections of at least 100 Mbps downstream and 20 Mbps upstream from 2021 to 2025. To calculate the HHI for a specific geographic area, we take the share of fixed connections reported by each provider in that area, square those shares, and then sum the resulting value over all providers in the area.<sup>1</sup>

**Figure 5**  
**Median Herfindahl-Hirschman Index by Geography 2021-2025**  
 (residential fixed connections of at least 100 Mbps downstream and 20 Mbps upstream)



Note: Areas without at least one connection are excluded from this analysis. Some previously published data may have been revised.  
 Source: FCC Form 477.

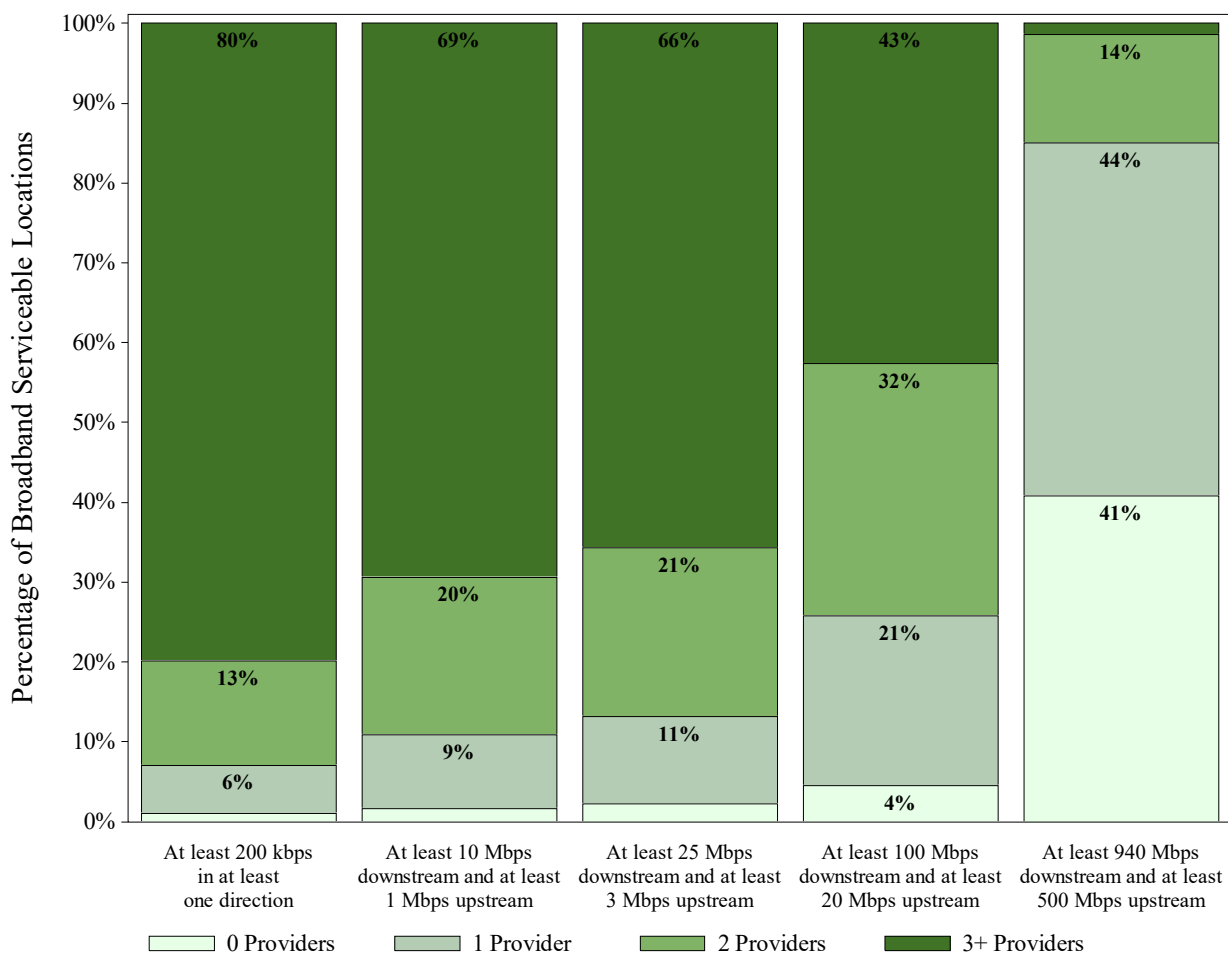
For the period shown above, the median HHI for census tracts has declined by almost 24% while the median across counties has declined by 33%. In June 2025, the median HHI for census tracts is about 22% larger than that of counties and 91% larger than that of states. These differences suggest that many providers are regional and serve relatively small geographic areas. The nationwide HHI and the median state HHIs have been relatively constant, reflecting a relative stability in the distribution of market shares across broad geographic areas.

<sup>1</sup> HHIs can range from 0 to 10,000 with larger HHIs implying higher levels of concentration and smaller HHIs implying lower levels of concentration.

## Number of Providers by Location

In Figure 6, we show the percentage of Broadband Serviceable Locations (BSLs) with zero, one, two, or three or more fixed broadband providers offering Internet access services at different speeds in June 2025. This figure is based on fixed broadband availability data reported to the FCC through the Broadband Data Collection (BDC). Additional information about the BDC can be found in the Technical Notes section of this report. Individuals can download the underlying data and explore the National Broadband Map here: [broadbandmap.fcc.gov](https://broadbandmap.fcc.gov).

**Figure 6**  
**Percentage of Broadband Serviceable Locations in which Providers Reported Availability of Fixed Broadband as of June 30, 2025**



Note: Satellite services are excluded from this analysis. Satellite service providers report offering Internet access at bandwidths of at least 25 Mbps downstream and 3 Mbps upstream to 100% of locations, bandwidths of at least 100 Mbps downstream and 20 Mbps upstream to 100% of locations, and bandwidths of at least 940 Mbps downstream and 500 Mbps upstream to 0% of locations. Numbers may not sum to totals due to rounding.

Source: FCC Broadband Data Collection.

As of June 2025, approximately 96% of BSLs had at least one provider report the availability of a terrestrial fixed broadband service with speeds of at least 100 Mbps downstream and 20 Mbps upstream. Alternatively, about 2% of locations did not have any provider report offering terrestrial fixed broadband with speeds of at least 25 Mbps downstream and 3 Mbps upstream.

## Other Highlights Include:

### *Typical Speeds*

- The median downstream speed of all reported fixed connections was 500 Mbps and the median upstream speed was 35 Mbps. For residential fixed connections, the median downstream speed was 500 Mbps and the median upstream speed was 35 Mbps. See Figures 35 and 36.
- The median downstream speed of all reported mobile connections was 35 Mbps and the median upstream speed was 4 Mbps. For residential mobile connections, the median downstream speed was 35 Mbps and the median upstream speed was 3 Mbps. See Figures 37 and 38.

### *Residential Connections*

- Residential fixed connections increased by about 1.5% between June 2024 and June 2025, to about 125 million. See Figure 12.
- Residential (non-business) mobile connections on mobile devices with data plans for full Internet access increased by about 0.6%, to 342 million, between June 2024 and June 2025. See Figure 12.
- Approximately 98% of residential fixed connections had a speed of at least 10 Mbps downstream and 1 Mbps upstream in June 2025, while 96% had a speed of at least 25 Mbps downstream and 3 Mbps upstream. About 75% of all residential fixed connections had a speed of at least 100 Mbps downstream and 20 Mbps upstream. See Figure 15.
- As a national average in June 2025, there were about 94 residential fixed connections with speeds of at least 10 Mbps downstream and 1 Mbps upstream per 100 households; 92 residential fixed connections with speeds of at least 25 Mbps downstream and 3 Mbps upstream per 100 households; and 71 residential fixed connections with speeds of at least 100 Mbps downstream and 20 Mbps upstream per 100 households. See Figure 43.

### *Census tract and county shares of households with residential fixed connections*

- We estimate the share of households with residential fixed connections in individual census tracts and counties as of June 30, 2025, and continue to observe substantial variation among these estimates. See Figures 48 and 51.

### *Household subscribership rates and demographics*

- The report includes charts that illustrate correlations between household subscribership rates and demographic measures. We update charts based on income, household density, education and age. The data indicate that some demographic variables are correlated with Internet access subscribership rates. See Figures 54-59.

**SECTION 2**  
**SUMMARY STATISTICS: BROADBAND AVAILABILITY**

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**Figure 7**  
**Fixed Broadband Availability Measured by Location and Block as of June 30, 2025**  
**(Locations in thousands. Includes services of at least 100 Mbps downstream and 20 Mbps upstream)**

<i>Technology</i>	<i>Total Locations</i>	<i>Aggregation By Location</i>		<i>Aggregation By Block</i>		<i>Difference</i>	
		<i>Locations Covered</i>	<i>Ratio</i>	<i>Locations Covered</i>	<i>Ratio</i>	<i>Difference</i>	<i>Ratio</i>
Any Technology	116,414	116,402	1.00	116,412	1.00	10	0.00
Satellite	116,414	116,039	1.00	116,108	1.00	69	0.00
Geostationary	116,414	0	0.00	0	0.00	0	0.00
Non-Geostationary	116,414	116,039	1.00	116,108	1.00	69	0.00
Terrestrial	116,414	111,223	0.96	114,445	0.98	3,222	0.03
Fixed Wireless	116,414	61,424	0.53	93,226	0.80	31,802	0.27
Licensed	116,414	54,375	0.47	90,105	0.77	35,730	0.31
Unlicensed	116,414	16,527	0.14	22,620	0.19	6,093	0.05
Wireline	116,414	107,108	0.92	110,948	0.95	3,840	0.03
Copper Wire <sup>1</sup>	116,414	3,985	0.03	18,224	0.16	14,239	0.12
Coaxial Cable	116,414	95,104	0.82	100,282	0.86	5,178	0.04
Optical Carrier	116,414	67,837	0.58	82,017	0.70	14,181	0.12

<sup>1</sup> Other is summarized with Copper Wire.

Note: The Aggregation by Location columns sum the number of locations reported with terrestrial fixed broadband service of at least 100 Mbps downstream and 20 Mbps upstream. The Aggregation by Block columns attempt to replicate the methodology used prior to the BDC where an entire block was counted as served if at least one location in that block was reported as served. The Difference column shows the number of locations without service that would have been counted as served using the block-level methodology. Numbers may not sum due to rounding.

Source: FCC Broadband Data Collection.

**Figure 8**  
**Availability of Fixed Broadband by Speed and Technology as of June 30, 2025**

<i>Technology</i>	<i>Share of Broadband Serviceable Locations with speeds of at least</i>				
	<i>200 kbps in at least One Direction</i>	<i>10 Mbps Down and 1 Mbps Up</i>	<i>25 Mbps Down and 3 Mbps Up</i>	<i>100 Mbps Down and 20 Mbps Up</i>	<i>940 Mbps Down and 500 Mbps Up</i>
Any Technology	100.0	100.0	100.0	100.0	59.2
Satellite	100.0	100.0	100.0	99.7	0.0
Geostationary	100.0	99.9	99.9	0.0	0.0
Non-Geostationary	99.7	99.7	99.7	99.7	0.0
Terrestrial	98.9	98.4	97.8	95.5	59.2
Fixed Wireless	89.7	79.3	77.6	52.8	1.9
Licensed	87.4	75.2	73.4	46.7	0.5
Unlicensed	22.6	21.5	20.4	14.2	1.5
Wireline	95.0	94.3	92.9	92.0	58.1
Copper Wire <sup>1</sup>	39.4	31.6	19.5	3.4	0.0
Coaxial Cable	81.9	81.9	81.9	81.7	5.0
Optical Carrier	58.3	58.3	58.3	58.3	56.7

<sup>1</sup> Other is summarized with Copper Wire.

Source: FCC Broadband Data Collection.

**Figure 9**  
**Availability of Terrestrial Fixed Broadband by State as of June 30, 2025**  
**(Locations in thousands)**

State	Locations	At least 200 kbps in at least One Direction		At least 10 Mbps Down and 1 Mbps Up		At least 25 Mbps Down and 3 Mbps Up		At least 100 Mbps Down and 20 Mbps Up		At least 940 Mbps Down and 500 Mbps Up	
		Locations	Ratio	Locations	Ratio	Locations	Ratio	Locations	Ratio	Locations	Ratio
Alabama	<b>2,200</b>	2,138	0.97	2,101	0.96	2,073	0.94	1,977	0.90	1,257	0.57
Alaska	<b>283</b>	262	0.93	253	0.90	236	0.83	215	0.76	17	0.06
American Samoa	<b>9</b>	9	1.00	9	1.00	9	1.00	2	0.20	0	0.00
Arizona	<b>2,743</b>	2,722	0.99	2,701	0.98	2,682	0.98	2,615	0.95	1,033	0.38
Arkansas	<b>1,363</b>	1,333	0.98	1,314	0.96	1,300	0.95	1,242	0.91	885	0.65
California	<b>10,251</b>	10,179	0.99	10,168	0.99	10,149	0.99	10,063	0.98	4,911	0.48
Colorado	<b>2,004</b>	1,979	0.99	1,971	0.98	1,960	0.98	1,909	0.95	1,083	0.54
Connecticut	<b>1,091</b>	1,089	1.00	1,089	1.00	1,089	1.00	1,086	1.00	917	0.84
Delaware	<b>405</b>	405	1.00	405	1.00	405	1.00	398	0.98	232	0.57
District of Columbia	<b>123</b>	123	1.00	123	1.00	123	1.00	123	1.00	115	0.93
Florida	<b>7,617</b>	7,577	0.99	7,543	0.99	7,517	0.99	7,407	0.97	4,603	0.60
Georgia	<b>3,862</b>	3,825	0.99	3,799	0.98	3,772	0.98	3,702	0.96	2,579	0.67
Guam	<b>37</b>	37	1.00	37	1.00	37	1.00	36	0.99	14	0.39
Hawaii	<b>320</b>	314	0.98	314	0.98	314	0.98	310	0.97	239	0.75
Idaho	<b>763</b>	750	0.98	746	0.98	739	0.97	704	0.92	355	0.47
Illinois	<b>4,115</b>	4,099	1.00	4,090	0.99	4,075	0.99	3,987	0.97	1,895	0.46
Indiana	<b>2,722</b>	2,701	0.99	2,682	0.99	2,666	0.98	2,606	0.96	1,746	0.64
Iowa	<b>1,369</b>	1,366	1.00	1,364	1.00	1,356	0.99	1,319	0.96	971	0.71
Kansas	<b>1,193</b>	1,187	0.99	1,184	0.99	1,177	0.99	1,144	0.96	906	0.76
Kentucky	<b>1,844</b>	1,811	0.98	1,783	0.97	1,753	0.95	1,676	0.91	1,423	0.77
Louisiana	<b>1,866</b>	1,788	0.96	1,763	0.94	1,753	0.94	1,674	0.90	933	0.50
Maine	<b>641</b>	631	0.98	629	0.98	619	0.97	595	0.93	335	0.52
Maryland	<b>1,861</b>	1,854	1.00	1,850	0.99	1,849	0.99	1,832	0.98	1,290	0.69
Massachusetts	<b>1,954</b>	1,951	1.00	1,950	1.00	1,950	1.00	1,946	1.00	1,081	0.55
Michigan	<b>4,025</b>	3,958	0.98	3,906	0.97	3,872	0.96	3,777	0.94	1,483	0.37
Minnesota	<b>2,120</b>	2,102	0.99	2,092	0.99	2,070	0.98	2,016	0.95	1,142	0.54
Mississippi	<b>1,326</b>	1,279	0.96	1,257	0.95	1,241	0.94	1,201	0.91	907	0.68
Missouri	<b>2,519</b>	2,500	0.99	2,488	0.99	2,472	0.98	2,393	0.95	1,845	0.73
Montana	<b>492</b>	475	0.97	466	0.95	456	0.93	416	0.85	193	0.39
Nebraska	<b>795</b>	789	0.99	787	0.99	782	0.98	759	0.95	579	0.73

**Figure 9 - Continued**  
**Availability of Terrestrial Fixed Broadband by State as of June 30, 2025**  
**(Locations in thousands)**

State	Locations	At least 200 kbps in at least One Direction		At least 10 Mbps Down and 1 Mbps Up		At least 25 Mbps Down and 3 Mbps Up		At least 100 Mbps Down and 20 Mbps Up		At least 940 Mbps Down and 500 Mbps Up	
		Locations	Ratio	Locations	Ratio	Locations	Ratio	Locations	Ratio	Locations	Ratio
Nevada	1,010	1,007	1.00	1,006	1.00	1,005	0.99	0	0.99	938	0.93
New Hampshire	520	516	0.99	514	0.99	509	0.98	504	0.97	327	0.63
New Jersey	2,585	2,582	1.00	2,581	1.00	2,581	1.00	2,575	1.00	1,969	0.76
New Mexico	855	846	0.99	838	0.98	826	0.97	776	0.91	214	0.25
New York	4,697	4,656	0.99	4,645	0.99	4,635	0.99	4,610	0.98	3,408	0.73
North Carolina	4,378	4,336	0.99	4,313	0.99	4,259	0.97	4,138	0.95	2,452	0.56
North Dakota	326	326	1.00	326	1.00	326	1.00	326	1.00	242	0.74
Northern Mariana Isl	11	11	0.99	11	0.99	11	0.99	3	0.29	2	0.16
Ohio	4,553	4,523	0.99	4,504	0.99	4,482	0.98	4,377	0.96	2,378	0.52
Oklahoma	1,728	1,717	0.99	1,708	0.99	1,693	0.98	1,630	0.94	1,065	0.62
Oregon	1,516	1,494	0.99	1,485	0.98	1,468	0.97	1,417	0.93	796	0.52
Pennsylvania	4,897	4,840	0.99	4,806	0.98	4,784	0.98	4,700	0.96	2,778	0.57
Puerto Rico	1,178	1,178	1.00	1,174	1.00	1,173	1.00	1,165	0.99	745	0.63
Rhode Island	342	339	0.99	339	0.99	339	0.99	336	0.98	276	0.81
South Carolina	2,211	2,203	1.00	2,195	0.99	2,190	0.99	2,159	0.98	1,297	0.59
South Dakota	396	393	0.99	392	0.99	389	0.98	378	0.96	219	0.55
Tennessee	2,780	2,760	0.99	2,744	0.99	2,731	0.98	2,700	0.97	2,048	0.74
Texas	10,220	10,147	0.99	10,110	0.99	10,086	0.99	9,900	0.97	7,447	0.73
Utah	1,033	1,025	0.99	1,023	0.99	1,018	0.99	1,006	0.97	753	0.73
Vermont	282	281	1.00	276	0.98	268	0.95	251	0.89	172	0.61
Virgin Islands	34	34	1.00	34	1.00	34	1.00	34	1.00	10	0.29
Virginia	2,926	2,854	0.98	2,811	0.96	2,780	0.95	2,678	0.92	1,909	0.65
Washington	2,564	2,526	0.99	2,496	0.97	2,459	0.96	2,352	0.92	949	0.37
West Virginia	897	828	0.92	813	0.91	778	0.87	735	0.82	327	0.36
Wisconsin	2,298	2,274	0.99	2,262	0.98	2,228	0.97	2,108	0.92	1,093	0.48
Wyoming	262	253	0.96	250	0.96	247	0.95	233	0.89	137	0.52
<b>Total</b>	<b>116,414</b>	<b>115,184</b>	<b>0.99</b>	<b>114,521</b>	<b>0.98</b>	<b>113,796</b>	<b>0.98</b>	<b>111,223</b>	<b>0.96</b>	<b>68,917</b>	<b>0.59</b>

# = Rounds to Zero.

Note: Satellite services are excluded from this analysis. Numbers may not sum to totals due to rounding.

Source: FCC Broadband Data Collection.

**Figure 10**  
**Availability of Mobile Broadband by State as of June 30, 2025**  
**(Locations in thousands)**

State	Locations	At least 3G (200 Kbps Down and 50 Kbps Up)		At least 4G LTE (5 Mbps Down and 1 Mbps Up)		At least 5G-NR (7 Mbps Down and 1 Mbps Up)		At least 5G-NR (35 Mbps Down and 3 Mbps Up)	
		Locations	Ratio	Locations	Ratio	Locations	Ratio	Locations	Ratio
Alabama	2,200	2,192	1.00	2,192	1.00	2,069	0.94	1,899	0.86
Alaska	283	266	0.94	260	0.92	223	0.79	138	0.49
American Samoa	9	9	1.00	9	1.00	9	0.97	9	0.96
Arizona	2,743	2,736	1.00	2,736	1.00	2,675	0.98	2,649	0.97
Arkansas	1,363	1,351	0.99	1,351	0.99	1,278	0.94	1,177	0.86
California	10,251	10,218	1.00	10,218	1.00	10,136	0.99	10,023	0.98
Colorado	2,004	1,978	0.99	1,977	0.99	1,917	0.96	1,877	0.94
Connecticut	1,091	1,088	1.00	1,088	1.00	1,058	0.97	986	0.90
Delaware	405	405	1.00	405	1.00	402	0.99	390	0.96
District of Columbia	123	123	1.00	123	1.00	123	1.00	123	1.00
Florida	7,617	7,615	1.00	7,615	1.00	7,576	0.99	7,395	0.97
Georgia	3,862	3,856	1.00	3,856	1.00	3,711	0.96	3,457	0.90
Guam	37	36	0.99	36	0.99	36	0.99	35	0.97
Hawaii	320	319	1.00	319	1.00	315	0.98	307	0.96
Idaho	763	748	0.98	748	0.98	726	0.95	712	0.93
Illinois	4,115	4,113	1.00	4,113	1.00	4,054	0.99	3,957	0.96
Indiana	2,722	2,718	1.00	2,718	1.00	2,640	0.97	2,521	0.93
Iowa	1,369	1,366	1.00	1,366	1.00	1,332	0.97	1,240	0.91
Kansas	1,193	1,192	1.00	1,192	1.00	1,161	0.97	1,113	0.93
Kentucky	1,844	1,789	0.97	1,789	0.97	1,647	0.89	1,508	0.82
Louisiana	1,866	1,863	1.00	1,863	1.00	1,819	0.97	1,740	0.93
Maine	641	622	0.97	622	0.97	549	0.86	444	0.69
Maryland	1,861	1,859	1.00	1,859	1.00	1,839	0.99	1,791	0.96
Massachusetts	1,954	1,952	1.00	1,952	1.00	1,919	0.98	1,845	0.94
Michigan	4,025	4,005	1.00	4,005	1.00	3,849	0.96	3,690	0.92
Minnesota	2,120	2,115	1.00	2,115	1.00	2,060	0.97	1,960	0.92
Mississippi	1,326	1,320	1.00	1,320	1.00	1,234	0.93	1,063	0.80
Missouri	2,519	2,506	0.99	2,506	0.99	2,396	0.95	2,249	0.89
Montana	492	471	0.96	471	0.96	447	0.91	433	0.88
Nebraska	795	793	1.00	793	1.00	750	0.94	703	0.88

**Figure 10 - Continued**  
**Availability of Mobile Broadband by State as of June 30, 2025**  
**(Locations in thousands)**

State	Locations	At least 3G (200 Kbps Down and 50 Kbps Up)		At least 4G LTE (5 Mbps Down and 1 Mbps Up)		At least 5G-NR (7 Mbps Down and 1 Mbps Up)		At least 5G-NR (35 Mbps Down and 3 Mbps Up)	
		Locations	Ratio	Locations	Ratio	Locations	Ratio	Locations	Ratio
Nevada	1,010	1,008	1.00	1,008	1.00	1,005	1.00	1,001	0.99
New Hampshire	520	512	0.99	512	0.99	441	0.85	372	0.72
New Jersey	2,585	2,585	1.00	2,585	1.00	2,575	1.00	2,539	0.98
New Mexico	855	843	0.99	843	0.99	815	0.95	799	0.93
New York	4,697	4,652	0.99	4,652	0.99	4,506	0.96	4,301	0.92
North Carolina	4,378	4,342	0.99	4,342	0.99	4,127	0.94	3,802	0.87
North Dakota	326	326	1.00	326	1.00	313	0.96	295	0.90
Northern Mariana Isl	11	11	0.99	11	0.99	9	0.81	8	0.78
Ohio	4,553	4,540	1.00	4,540	1.00	4,490	0.99	4,405	0.97
Oklahoma	1,728	1,725	1.00	1,725	1.00	1,692	0.98	1,621	0.94
Oregon	1,516	1,504	0.99	1,504	0.99	1,465	0.97	1,421	0.94
Pennsylvania	4,897	4,858	0.99	4,858	0.99	4,719	0.96	4,603	0.94
Puerto Rico	1,178	1,176	1.00	1,175	1.00	1,172	0.99	1,143	0.97
Rhode Island	342	342	1.00	342	1.00	339	0.99	328	0.96
South Carolina	2,211	2,209	1.00	2,209	1.00	2,150	0.97	2,050	0.93
South Dakota	396	394	1.00	394	0.99	379	0.96	358	0.91
Tennessee	2,780	2,734	0.98	2,734	0.98	2,540	0.91	2,374	0.85
Texas	10,220	10,211	1.00	10,211	1.00	10,089	0.99	9,931	0.97
Utah	1,033	1,027	0.99	1,027	0.99	1,017	0.99	1,012	0.98
Vermont	282	265	0.94	265	0.94	177	0.63	140	0.50
Virgin Islands	34	34	1.00	34	1.00	33	0.97	18	0.54
Virginia	2,926	2,886	0.99	2,886	0.99	2,673	0.91	2,493	0.85
Washington	2,564	2,543	0.99	2,543	0.99	2,487	0.97	2,417	0.94
West Virginia	897	802	0.89	802	0.89	721	0.80	662	0.74
Wisconsin	2,298	2,282	0.99	2,282	0.99	2,140	0.93	1,975	0.86
Wyoming	262	257	0.98	257	0.98	237	0.91	228	0.87
<b>Total</b>	<b>116,414</b>	<b>115,694</b>	<b>0.99</b>	<b>115,686</b>	<b>0.99</b>	<b>112,260</b>	<b>0.96</b>	<b>107,733</b>	<b>0.93</b>

# = Rounds to Zero.

Note: Numbers may not sum to totals due to rounding.

Source: FCC Broadband Data Collection.

**SECTION 3**  
**SUMMARY STATISTICS: THE NATION**

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**Figure 11**  
**Connections over 200 kbps in at Least One Direction 2021-2025**  
(in thousands)

<i>Technology</i>	<i>2021</i>		<i>2022</i>		<i>2023</i>		<i>2024</i>		<i>2025</i>
	<i>Jun</i>	<i>Dec</i>	<i>Jun</i>	<i>Dec</i>	<i>Jun</i>	<i>Dec</i>	<i>Jun</i>	<i>Dec</i>	<i>Jun</i>
Total	500,260	510,200	518,206	528,259	536,263	544,121	548,913	552,532	559,093
Mobile	376,840	384,420	391,868	400,322	406,820	413,257	416,059	418,742	424,160
Fixed	123,430	125,780	126,338	127,936	129,443	130,864	132,854	133,790	134,933

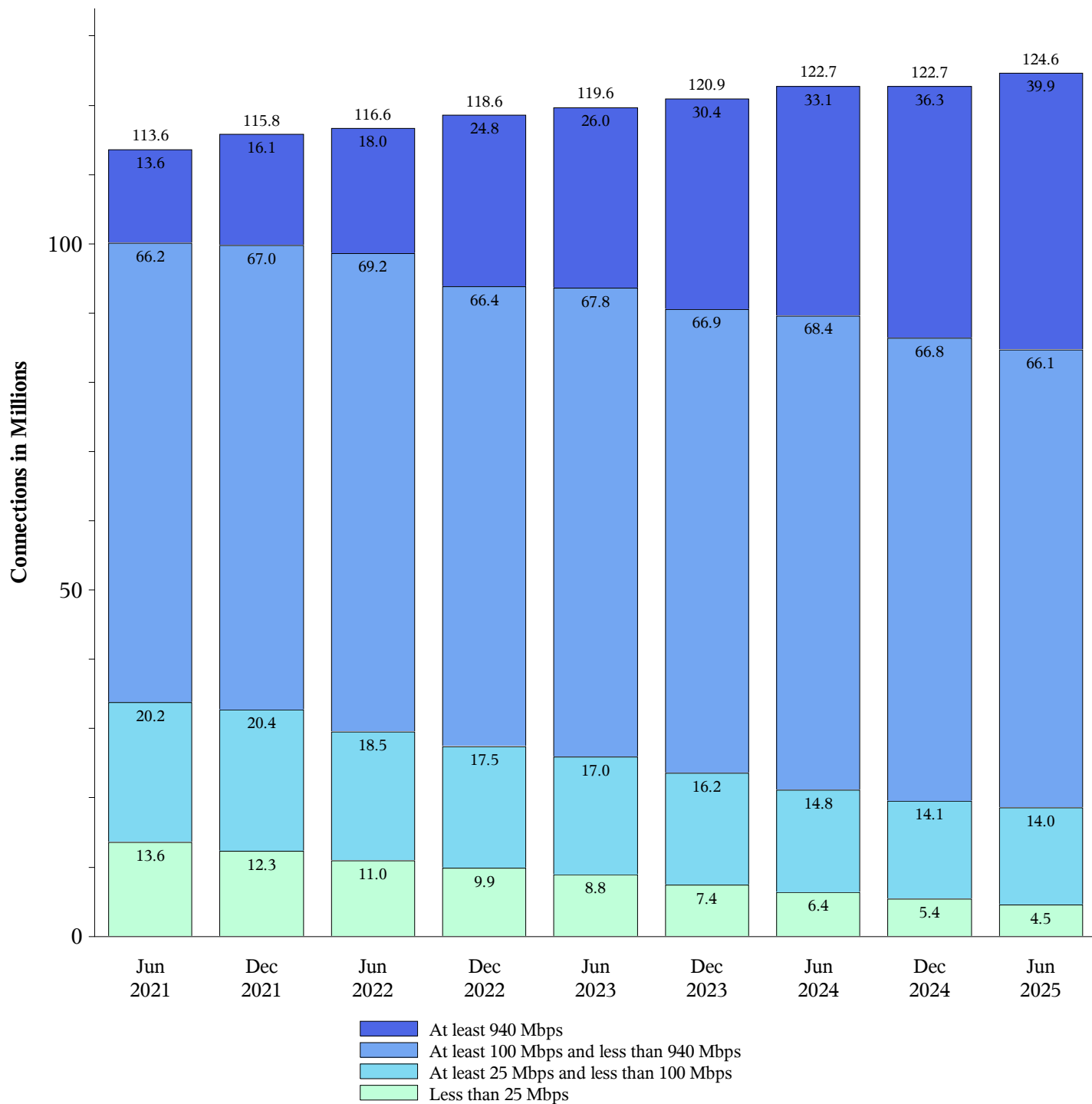
Note: Some previously published data may have been revised. Numbers may not sum to totals due to rounding.  
Source: FCC Form 477.

**Figure 12**  
**Residential Connections over 200 kbps in at Least One Direction 2021-2025**  
(in thousands)

<i>Technology</i>	<i>2021</i>		<i>2022</i>		<i>2023</i>		<i>2024</i>		<i>2025</i>
	<i>Jun</i>	<i>Dec</i>	<i>Jun</i>	<i>Dec</i>	<i>Jun</i>	<i>Dec</i>	<i>Jun</i>	<i>Dec</i>	<i>Jun</i>
Total	415,260	436,580	442,469	449,615	455,177	460,444	462,612	462,270	466,340
Mobile	301,680	320,780	325,823	331,059	335,540	339,544	339,868	339,588	341,756
Fixed	113,580	115,790	116,645	118,556	119,637	120,900	122,744	122,682	124,584

Note: Some previously published data may have been revised. Numbers may not sum to totals due to rounding.  
Source: FCC Form 477.

**Figure 13**  
**Residential Fixed Connections by Downstream Speed 2021-2025**  
 (in millions)



Note: Some previously published data may have been revised. Numbers may not sum to totals due to rounding.  
 Source: FCC Form 477.

**Figure 14**  
**Distribution of Fixed Connections over 200 kbps in at Least One Direction as of June 30, 2025**  
**(Connections in thousands)**

<i>Upstream Speed</i>	<i>Downstream Speed</i>					<i>Total</i>
	<i>Less than 10 Mbps</i>	<i>At least 10 Mbps and less than 25 Mbps</i>	<i>At least 25 Mbps and less than 100 Mbps</i>	<i>At least 100 Mbps and less than 940 Mbps</i>	<i>At least 940 Mbps</i>	
Less than 1 Mbps	1,120	306	#	1	#	1,428
At least 1 Mbps & Less than 3 Mbps	1,037	1,988	333	4	#	3,362
At least 3 Mbps & Less than 20 Mbps	85	604	14,328	14,217	13	29,248
At least 20 Mbps & Less than 500 Mbps	3	136	1,547	52,860	19,261	73,806
At least 500 Mbps	0	#	1	4,690	22,398	27,090
<b>Total</b>	<b>2,244</b>	<b>3,035</b>	<b>16,208</b>	<b>71,773</b>	<b>41,673</b>	<b>134,933</b>

<i>Percentages</i>						
Less than 1 Mbps	0.8	0.2	0.0	0.0	0.0	1.1
At least 1 Mbps & Less than 3 Mbps	0.8	1.5	0.2	0.0	0.0	2.5
At least 3 Mbps & Less than 20 Mbps	0.1	0.4	10.6	10.5	0.0	21.7
At least 20 Mbps & Less than 500 Mbps	0.0	0.1	1.1	39.2	14.3	54.7
At least 500 Mbps	0.0	0.0	0.0	3.5	16.6	20.1
<b>Total</b>	<b>1.7</b>	<b>2.2</b>	<b>12.0</b>	<b>53.2</b>	<b>30.9</b>	<b>100.0</b>

# = Rounds to zero.

Note: Numbers may not sum to totals due to rounding.

Source: FCC Form 477.

**Figure 15**  
**Distribution of Residential Fixed Connections over 200 kbps in at Least One Direction as of June 30, 2025**  
**(Connections in thousands)**

<i>Upstream Speed</i>	<i>Downstream Speed</i>					<i>Total</i>
	<i>Less than 10 Mbps</i>	<i>At least 10 Mbps and less than 25 Mbps</i>	<i>At least 25 Mbps and less than 100 Mbps</i>	<i>At least 100 Mbps and less than 940 Mbps</i>	<i>At least 940 Mbps</i>	
Less than 1 Mbps	949	283	#	1	#	1,233
At least 1 Mbps & Less than 3 Mbps	895	1,695	300	4	#	2,894
At least 3 Mbps & Less than 20 Mbps	71	531	12,597	12,871	13	26,083
At least 20 Mbps & Less than 500 Mbps	2	112	1,110	48,859	18,691	68,774
At least 500 Mbps	0	#	1	4,387	21,211	25,600
<b>Total</b>	<b>1,916</b>	<b>2,621</b>	<b>14,008</b>	<b>66,122</b>	<b>39,915</b>	<b>124,584</b>

<i>Percentages</i>						
Less than 1 Mbps	0.8	0.2	0.0	0.0	0.0	1.0
At least 1 Mbps & Less than 3 Mbps	0.7	1.4	0.2	0.0	0.0	2.3
At least 3 Mbps & Less than 20 Mbps	0.1	0.4	10.1	10.3	0.0	20.9
At least 20 Mbps & Less than 500 Mbps	0.0	0.1	0.9	39.2	15.0	55.2
At least 500 Mbps	0.0	0.0	0.0	3.5	17.0	20.5
<b>Total</b>	<b>1.5</b>	<b>2.1</b>	<b>11.2</b>	<b>53.1</b>	<b>32.0</b>	<b>100.0</b>

# = Rounds to zero.

Note: Numbers may not sum to totals due to rounding.

Source: FCC Form 477.

**Figure 16**  
**Connections over 200 kbps in at Least One Direction by Technology 2021-2025**  
(in thousands)

Technology	2021		2022		2023		2024		2025
	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun
Total	500,260	510,200	518,206	528,259	536,263	544,121	548,913	552,532	559,093
Mobile	376,840	384,420	391,868	400,322	406,820	413,257	416,059	418,742	424,160
Fixed	123,430	125,780	126,338	127,936	129,443	130,864	132,854	133,790	134,933
Copper Wire <sup>1</sup>	18,620	17,412	15,651	14,691	13,238	11,848	10,788	8,961	7,346
Coaxial Cable	79,330	80,232	80,026	80,114	79,466	78,968	78,051	76,279	74,532
Optical Carrier	21,120	23,338	24,947	26,252	28,245	30,148	32,760	35,995	38,444
Satellite	1,910	1,873	2,031	2,039	2,026	2,128	2,308	2,732	3,114
Fixed Wireless	2,445	2,923	3,682	4,839	6,469	7,772	8,946	9,823	11,497
Licensed	-	-	1,954	3,213	4,887	6,307	7,444	8,437	10,149
Unlicensed	-	-	1,728	1,626	1,582	1,465	1,502	1,386	1,348

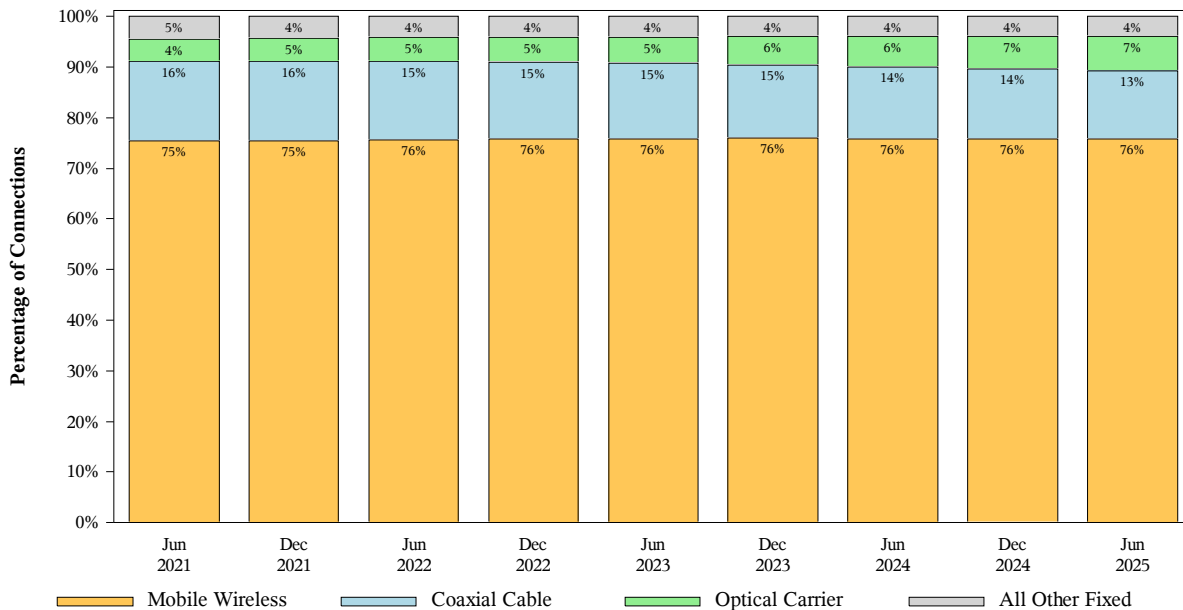
<sup>1</sup> Power Line and Other are summarized with Copper Wire for confidentiality reasons. See Technical Notes at the end of the report for a description of FCC Form 477 technology categories and other reporting requirements.

\* = Data withheld for confidentiality reasons. # = Rounds to zero. - = Data was not collected.

Note: Some previously published data may have been revised. Numbers may not sum to totals due to rounding.

Source: FCC Form 477.

**Figure 17**  
**Connections over 200 kbps in at Least One Direction 2021-2025**  
(Shares of selected technologies)



Note: Some previously published data may have been revised. Numbers may not sum to totals due to rounding.

Source: FCC Form 477.

**Figure 18**  
**Residential Connections over 200 kbps in at Least One Direction by Technology 2021-2025**  
(in thousands)

Technology	2021		2022		2023		2024		2025
	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun
Total	415,260	436,580	442,469	449,615	455,177	460,444	462,612	462,270	466,340
Mobile	301,680	320,780	325,823	331,059	335,540	339,544	339,868	339,588	341,756
Fixed	113,580	115,790	116,645	118,556	119,637	120,900	122,744	122,682	124,584
Copper Wire <sup>1</sup>	16,344	15,269	13,985	13,094	11,861	10,625	9,716	8,009	6,602
Coaxial Cable	73,844	74,599	74,445	74,537	73,897	73,385	72,563	70,073	69,248
Optical Carrier	19,414	21,531	22,958	24,474	26,256	28,042	30,473	33,496	35,985
Satellite	1,728	1,692	1,841	1,949	1,929	2,037	2,174	2,580	2,912
Fixed Wireless	2,251	2,701	3,415	4,503	5,693	6,810	7,818	8,523	9,836
Licensed	-	-	1,841	3,022	4,258	5,482	6,463	7,264	8,608
Unlicensed	-	-	1,575	1,481	1,435	1,328	1,356	1,259	1,228

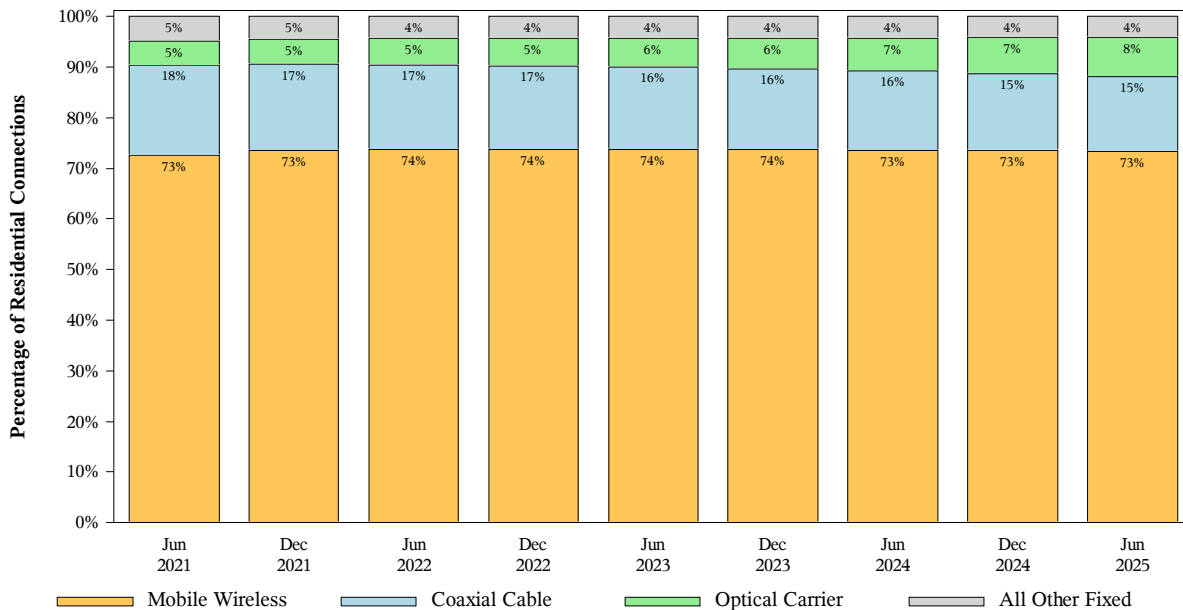
<sup>1</sup> Power Line and Other are summarized with Copper Wire for confidentiality reasons. See Technical Notes at the end of the report for a description of FCC Form 477 technology categories and other reporting requirements.

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Note: Some previously published data may have been revised. Numbers may not sum to totals due to rounding.

Source: FCC Form 477.

**Figure 19**  
**Residential Connections over 200 kbps in at Least One Direction 2021-2025**  
(Shares of selected technologies)



Note: Some previously published data may have been revised. Numbers may not sum to totals due to rounding.

Source: FCC Form 477.

**Figure 20**  
**Fixed Connections at Least 10 Mbps Downstream and 1 Mbps Upstream by Technology 2021-2025**  
(in thousands)

Technology	2021		2022		2023		2024		2025
	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun
Total	115,770	118,770	120,354	122,593	124,599	126,680	129,314	130,594	132,380
Copper Wire <sup>1</sup>	12,347	11,681	10,690	10,321	9,428	8,569	8,065	6,569	5,486
Coaxial Cable	79,035	79,956	79,680	79,823	79,287	78,855	77,905	76,107	74,335
Optical Carrier	20,813	23,058	24,785	26,114	28,118	30,030	32,648	35,880	38,349
Satellite	1,717	1,700	1,863	1,935	1,929	2,049	2,235	2,661	3,044
Fixed Wireless	1,860	2,379	3,336	4,400	5,837	7,176	8,461	9,378	11,166
Licensed	-	-	1,907	3,052	4,599	6,002	7,204	8,196	9,937
Unlicensed	-	-	1,429	1,348	1,238	1,174	1,257	1,181	1,229

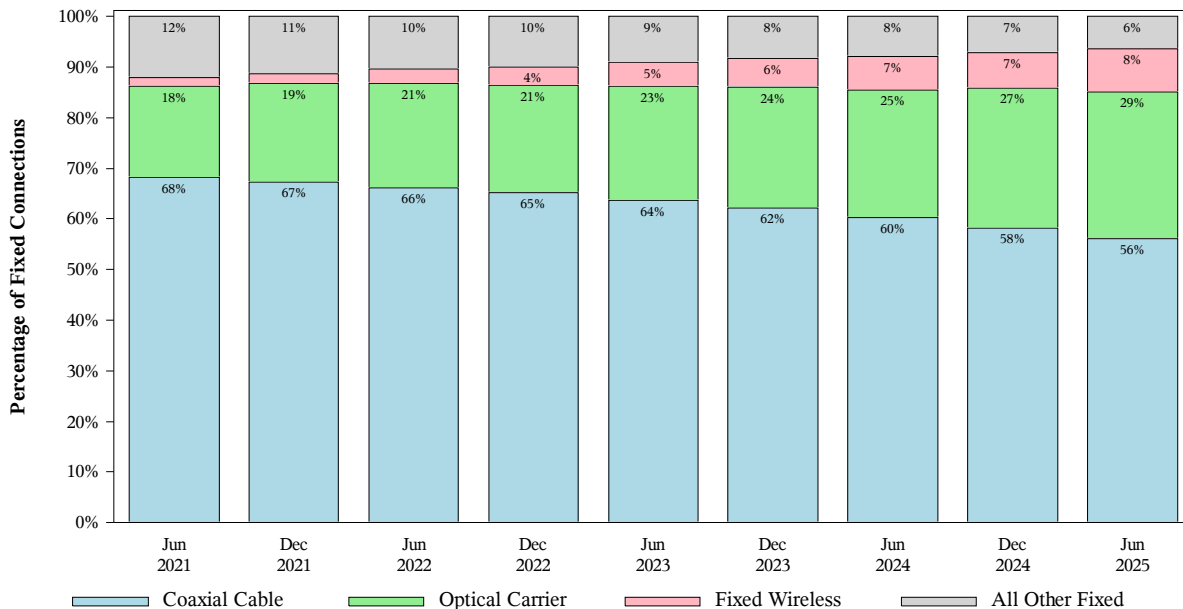
<sup>1</sup> Power Line and Other are summarized with Copper Wire for confidentiality reasons. See Technical Notes at the end of the report for a description of FCC Form 477 technology categories and other reporting requirements.

\* = Data withheld for confidentiality reasons. # = Rounds to zero. - = Data was not collected.

Note: Some previously published data may have been revised. Numbers may not sum to totals due to rounding.

Source: FCC Form 477.

**Figure 21**  
**Fixed Connections at Least 10 Mbps Downstream and 1 Mbps Upstream 2021-2025**  
(Shares of selected technologies)



Note: Some previously published data may have been revised. Numbers may not sum to totals due to rounding.

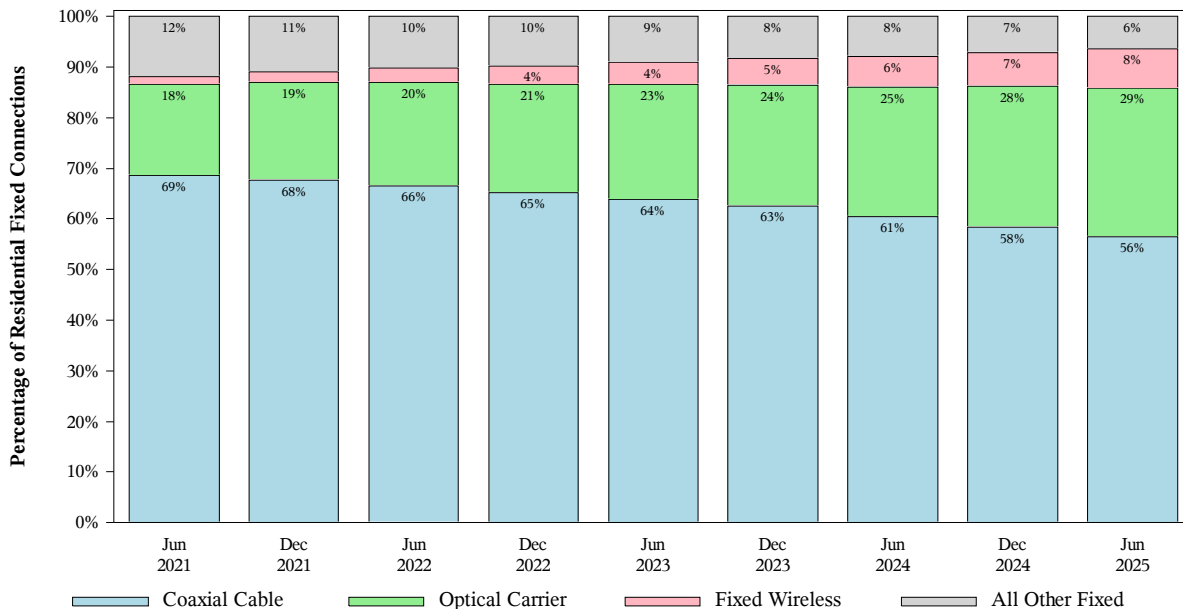
Source: FCC Form 477.

**Figure 22**  
**Residential Fixed Connections at Least 10 Mbps Downstream and 1 Mbps Upstream by Technology 2021-2025**  
(in thousands)

Technology	2021		2022		2023		2024		2025
	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun
Total	107,210	109,980	111,533	113,916	115,420	117,253	119,658	119,973	122,383
Copper Wire <sup>1</sup>	11,066	10,441	9,658	9,278	8,536	7,760	7,324	5,986	4,980
Coaxial Cable	73,611	74,386	74,150	74,299	73,754	73,302	72,451	69,934	69,085
Optical Carrier	19,145	21,286	22,821	24,361	26,154	27,943	30,380	33,400	35,908
Satellite	1,676	1,656	1,806	1,884	1,869	1,991	2,133	2,540	2,874
Fixed Wireless	1,714	2,206	3,097	4,094	5,107	6,258	7,370	8,113	9,535
Licensed	-	-	1,799	2,871	3,989	5,199	6,240	7,042	8,413
Unlicensed	-	-	1,299	1,223	1,118	1,059	1,130	1,071	1,122

<sup>1</sup> Power Line and Other are summarized with Copper Wire for confidentiality reasons. See Technical Notes at the end of the report for a description of FCC Form 477 technology categories and other reporting requirements.  
\* = Data withheld for confidentiality reasons. # = Rounds to zero. - = Data was not collected.  
Note: Some previously published data may have been revised. Numbers may not sum to totals due to rounding.  
Source: FCC Form 477.

**Figure 23**  
**Residential Fixed Connections at Least 10 Mbps Downstream and 1 Mbps Upstream 2021-2025**  
(Shares of selected technologies)



Note: Some previously published data may have been revised. Numbers may not sum to totals due to rounding.  
Source: FCC Form 477.

**Figure 24**  
**Fixed Connections at Least 25 Mbps Downstream and 3 Mbps Upstream by Technology 2021-2025**  
(in thousands)

Technology	2021		2022		2023		2024		2025
	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun
Total	106,790	110,630	113,027	116,128	118,798	121,709	124,861	127,063	129,315
Copper Wire <sup>1</sup>	6,688	6,538	6,014	6,094	5,523	5,110	5,023	3,994	3,327
Coaxial Cable	77,502	78,656	78,602	78,989	78,553	78,488	77,598	75,952	74,211
Optical Carrier	20,171	22,459	24,249	25,687	27,842	29,793	32,423	35,722	38,205
Satellite	1,328	1,353	1,552	1,685	1,734	1,889	2,109	2,568	2,970
Fixed Wireless	1,105	1,620	2,610	3,672	5,147	6,429	7,708	8,827	10,603
Licensed	-	-	1,797	2,801	4,358	5,662	6,829	7,989	9,751
Unlicensed	-	-	813	871	789	767	879	838	852

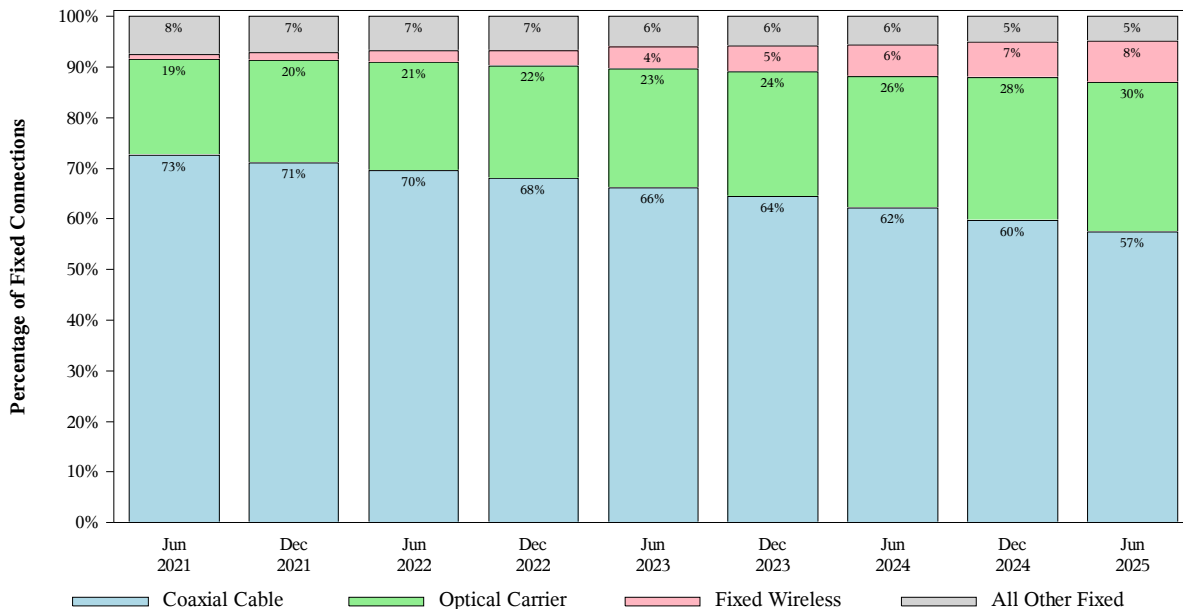
<sup>1</sup> Power Line and Other are summarized with Copper Wire for confidentiality reasons. See Technical Notes at the end of the report for a description of FCC Form 477 technology categories and other reporting requirements.

\* = Data withheld for confidentiality reasons. # = Rounds to zero. - = Data was not collected.

Note: Some previously published data may have been revised. Numbers may not sum to totals due to rounding.

Source: FCC Form 477.

**Figure 25**  
**Fixed Connections at Least 25 Mbps Downstream and 3 Mbps Upstream 2021-2025**  
(Shares of selected technologies)



Note: Some previously published data may have been revised. Numbers may not sum to totals due to rounding.

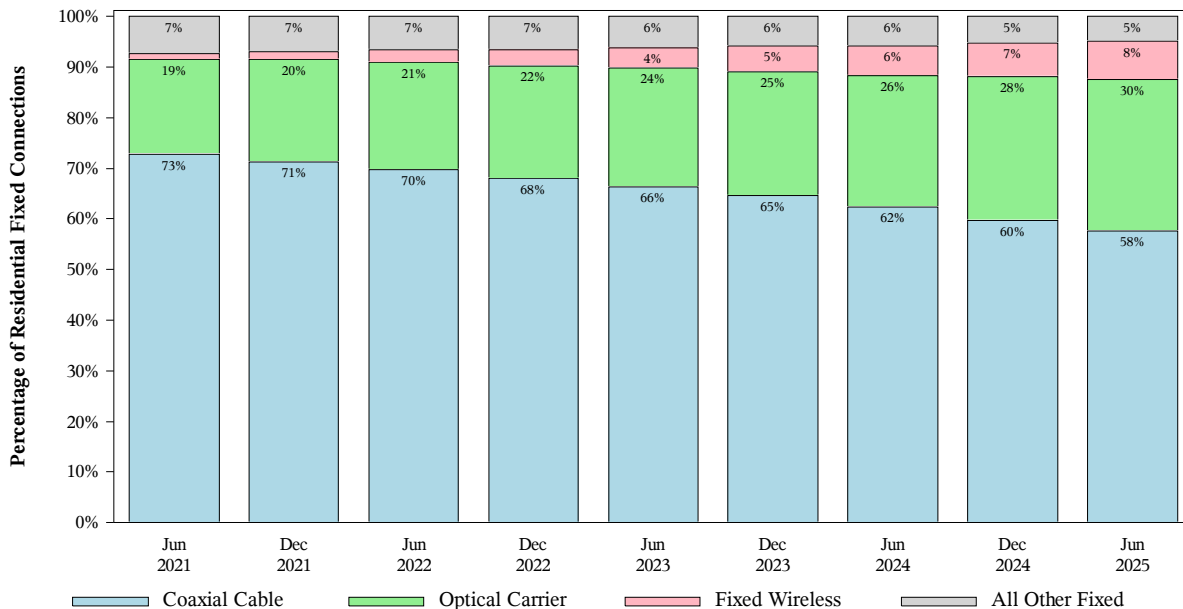
Source: FCC Form 477.

**Figure 26**  
**Residential Fixed Connections at Least 25 Mbps Downstream and 3 Mbps Upstream by Technology 2021-2025**  
(in thousands)

Technology	2021		2022		2023		2024		2025
	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun
Total	99,254	102,800	105,023	108,184	110,304	113,039	115,932	116,925	119,740
Copper Wire <sup>1</sup>	6,068	5,930	5,515	5,547	5,107	4,730	4,651	3,731	3,093
Coaxial Cable	72,268	73,262	73,217	73,560	73,110	73,006	72,209	69,817	68,986
Optical Carrier	18,615	20,795	22,371	24,016	25,933	27,758	30,218	33,284	35,804
Satellite	1,288	1,311	1,497	1,637	1,677	1,831	2,032	2,466	2,815
Fixed Wireless	1,015	1,506	2,421	3,423	4,476	5,715	6,822	7,628	9,043
Licensed	-	-	1,698	2,637	3,764	5,028	6,039	6,874	8,269
Unlicensed	-	-	724	787	712	687	784	754	773

<sup>1</sup> Power Line and Other are summarized with Copper Wire for confidentiality reasons. See Technical Notes at the end of the report for a description of FCC Form 477 technology categories and other reporting requirements.  
\* = Data withheld for confidentiality reasons. # = Rounds to zero. - = Data was not collected.  
Note: Some previously published data may have been revised. Numbers may not sum to totals due to rounding.  
Source: FCC Form 477.

**Figure 27**  
**Residential Fixed Connections at Least 25 Mbps Downstream and 3 Mbps Upstream 2021-2025**  
(Shares of selected technologies)



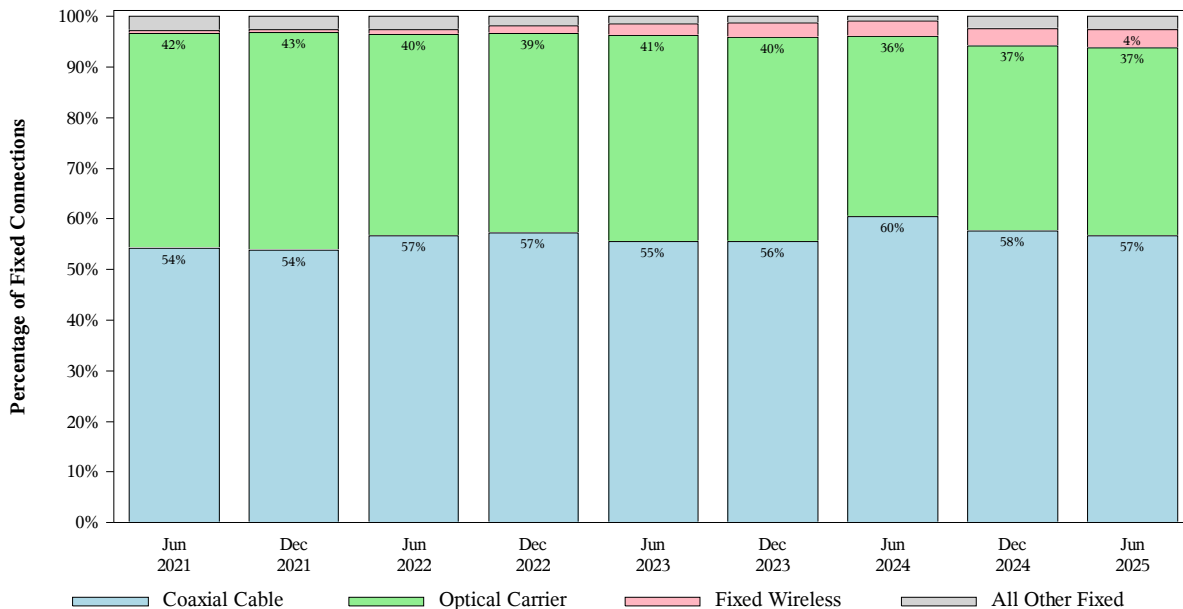
Note: Some previously published data may have been revised. Numbers may not sum to totals due to rounding.  
Source: FCC Form 477.

**Figure 28**  
**Fixed Connections at Least 100 Mbps Downstream and 20 Mbps Upstream by Technology 2021-2025**  
(in thousands)

Technology	2021		2022		2023		2024		2025
	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun
Total	38,563	43,352	52,808	58,345	62,035	69,214	86,029	92,923	99,209
Copper Wire <sup>1</sup>	*	*	*	*	*	*	*	*	*
Coaxial Cable	20,924	23,298	29,955	33,395	34,407	38,478	52,014	53,460	56,266
Optical Carrier	16,373	18,705	20,950	22,940	25,324	27,920	30,690	34,084	36,736
Satellite	*	*	*	*	*	*	*	*	*
Fixed Wireless	180	239	501	880	1,395	1,952	2,464	3,080	3,611
Licensed	-	-	302	675	1,210	1,735	2,210	2,797	3,300
Unlicensed	-	-	199	205	185	217	254	283	311

<sup>1</sup> Power Line and Other are summarized with Copper Wire for confidentiality reasons. See Technical Notes at the end of the report for a description of FCC Form 477 technology categories and other reporting requirements.  
\* = Data withheld for confidentiality reasons. # = Rounds to zero. - = Data was not collected.  
Note: Some previously published data may have been revised. Numbers may not sum to totals due to rounding.  
Source: FCC Form 477.

**Figure 29**  
**Fixed Connections at Least 100 Mbps Downstream and 20 Mbps Upstream 2021-2025**  
(Shares of selected technologies)



Note: Some previously published data may have been revised. Numbers may not sum to totals due to rounding.  
Source: FCC Form 477.

**Figure 30**  
**Residential Fixed Connections at Least 100 Mbps Downstream and 20 Mbps Upstream by Technology 2021-2025**  
(in thousands)

Technology	2021		2022		2023		2024		2025
	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun
Total	35,456	39,921	49,027	54,498	57,843	64,479	81,031	86,317	93,148
Copper Wire <sup>1</sup>	*	*	*	*	*	*	*	*	*
Coaxial Cable	19,128	21,298	27,829	31,091	31,953	35,759	49,303	49,460	52,914
Optical Carrier	15,329	17,537	19,522	21,689	23,813	26,205	28,789	31,944	34,600
Satellite	*	*	*	*	*	*	*	*	*
Fixed Wireless	158	215	451	801	1,260	1,750	2,187	2,724	3,205
Licensed	-	-	277	616	1,096	1,560	1,967	2,471	2,921
Unlicensed	-	-	175	186	165	190	219	253	283

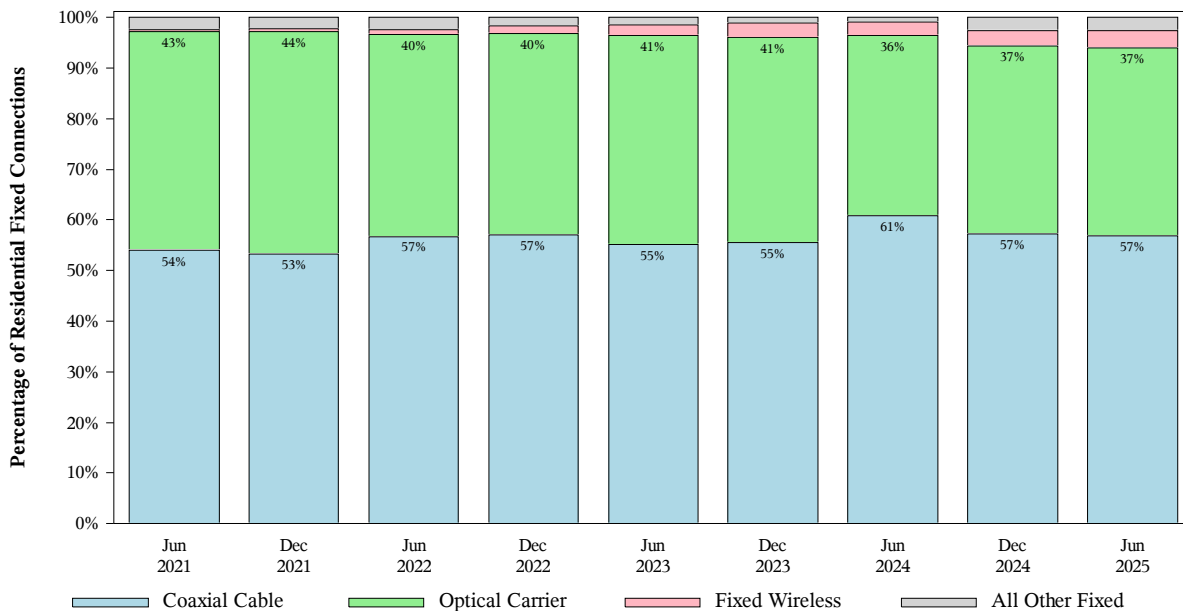
<sup>1</sup> Power Line and Other are summarized with Copper Wire for confidentiality reasons. See Technical Notes at the end of the report for a description of FCC Form 477 technology categories and other reporting requirements.

\* = Data withheld for confidentiality reasons. # = Rounds to zero. - = Data was not collected.

Note: Some previously published data may have been revised. Numbers may not sum to totals due to rounding.

Source: FCC Form 477.

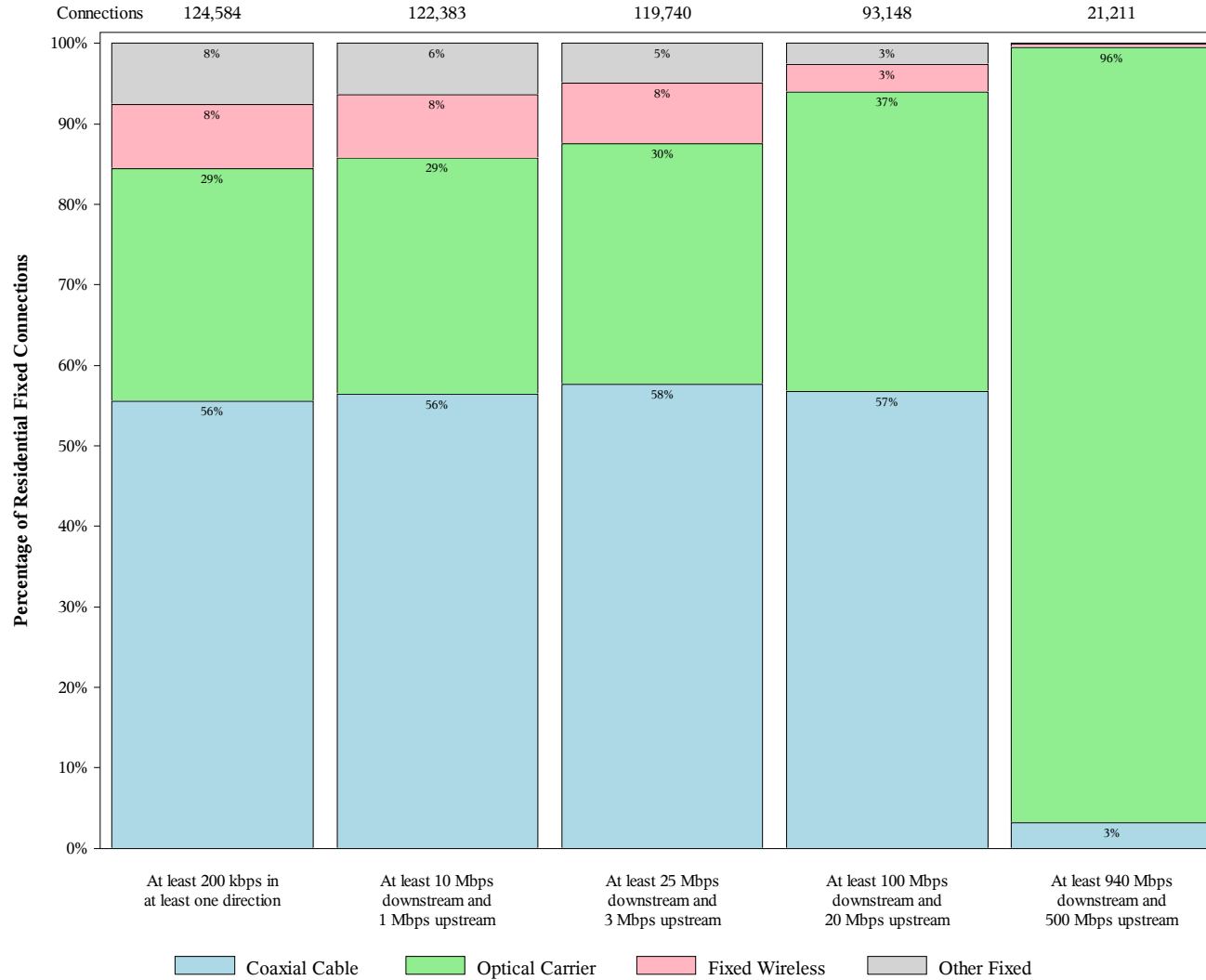
**Figure 31**  
**Residential Fixed Connections at Least 100 Mbps Downstream and 20 Mbps Upstream 2021-2025**  
(Shares of selected technologies)



Note: Some previously published data may have been revised. Numbers may not sum to totals due to rounding.

Source: FCC Form 477.

**Figure 32**  
**Residential Fixed Connections by Technology as of June 30, 2025**  
 (Shares of selected technologies for selected speeds, connections in thousands)



Note: Numbers may not sum to totals due to rounding.  
 Source: FCC Form 477.

**Figure 33**  
**Fixed Connections by Downstream Speed Tier and Technology as of June 30, 2025**  
(Connections in thousands)

<i>Technology</i>	<i>Downstream Speed</i>					<i>Total</i>
	<i>Less than 10 Mbps</i>	<i>At least 10 Mbps and less than 25 Mbps</i>	<i>At least 25 Mbps and less than 100 Mbps</i>	<i>At least 100 Mbps and less than 940 Mbps</i>	<i>At least 940 Mbps</i>	
Total	2,244	3,035	16,208	71,773	41,673	134,933
Copper Wire <sup>1</sup>	1,561	2,181	3,149	443	12	7,346
Coaxial Cable	196	81	4,399	50,412	19,444	74,532
Optical Carrier	87	139	1,197	14,971	22,050	38,444
Satellite	*	*	*	*	0	3,114
Fixed Wireless	*	*	*	*	167	11,497
<i>Percentages</i>						
Total	1.7	2.2	12.0	53.2	30.9	100.0
Copper Wire <sup>1</sup>	1.2	1.6	2.3	0.3	0.0	5.4
Coaxial Cable	0.1	0.1	3.3	37.4	14.4	55.2
Optical Carrier	0.1	0.1	0.9	11.1	16.3	28.5
Satellite	*	*	*	*	0.0	2.3
Fixed Wireless	*	*	*	*	0.1	8.5

<sup>1</sup> Other is summarized with Copper Wire for confidentiality reasons.

\* = Data withheld for confidentiality reasons. # = Rounds to Zero.

Note: Numbers may not sum to totals due to rounding.

Source: FCC Form 477.

**Figure 34**  
**Residential Fixed Connections by Downstream Speed Tier and Technology as of June 30, 2025**  
(Connections in thousands)

<i>Technology</i>	<i>Downstream Speed</i>					<i>Total</i>
	<i>Less than 10 Mbps</i>	<i>At least 10 Mbps and less than 25 Mbps</i>	<i>At least 25 Mbps and less than 100 Mbps</i>	<i>At least 100 Mbps and less than 940 Mbps</i>	<i>At least 940 Mbps</i>	
Total	1,916	2,621	14,008	66,122	39,915	124,584
Copper Wire <sup>1</sup>	1,345	1,915	2,932	400	10	6,602
Coaxial Cable	163	58	3,765	46,382	18,881	69,248
Optical Carrier	70	100	955	13,995	20,865	35,985
Satellite	*	*	*	*	0	2,912
Fixed Wireless	*	*	*	*	159	9,836
<i>Percentages</i>						
Total	1.5	2.1	11.2	53.1	32.0	100.0
Copper Wire <sup>1</sup>	1.1	1.5	2.4	0.3	0.0	5.3
Coaxial Cable	0.1	0.0	3.0	37.2	15.2	55.6
Optical Carrier	0.1	0.1	0.8	11.2	16.7	28.9
Satellite	*	*	*	*	0.0	2.3
Fixed Wireless	*	*	*	*	0.1	7.9

<sup>1</sup> Other is summarized with Copper Wire for confidentiality reasons.

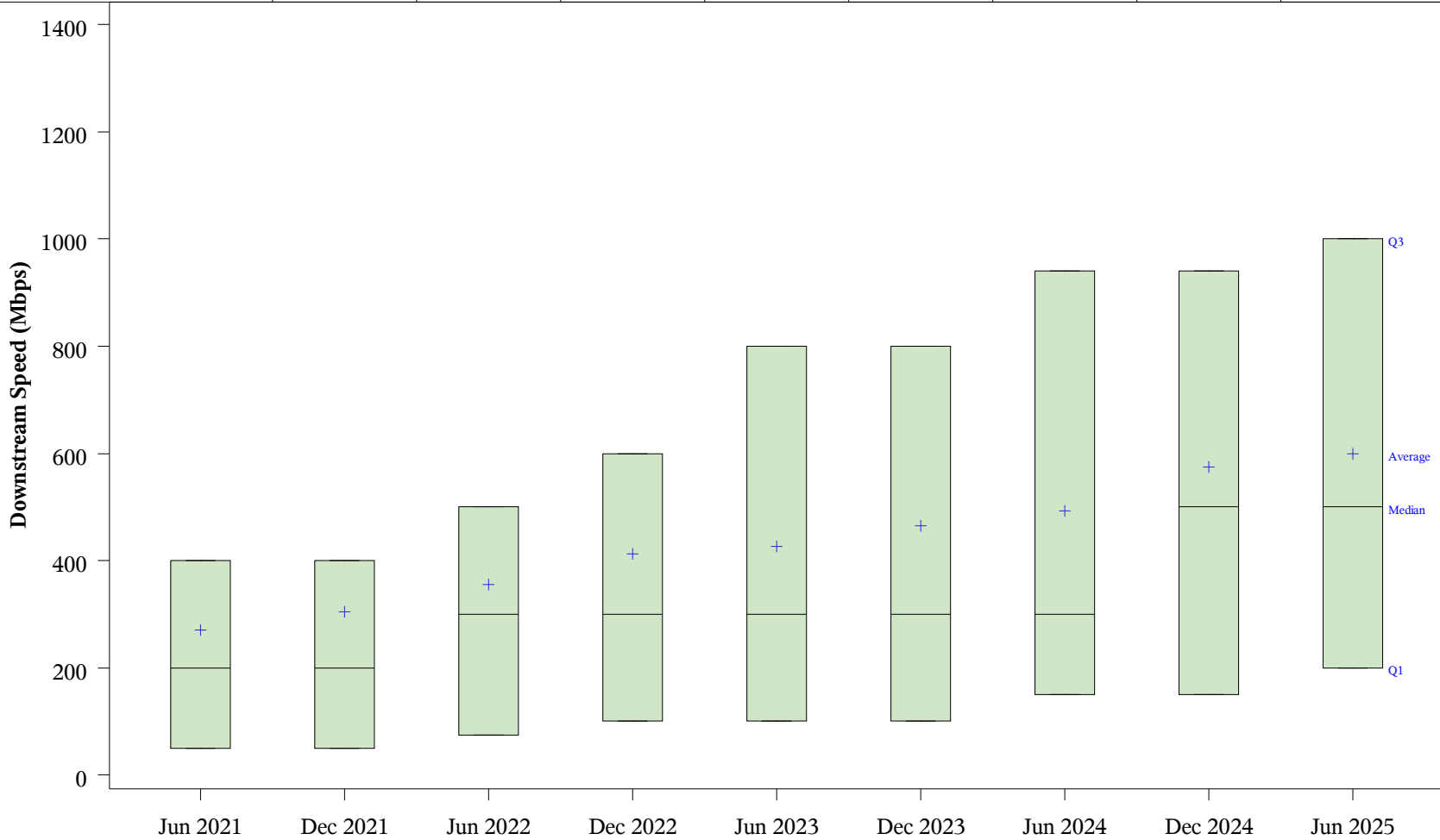
\* = Data withheld for confidentiality reasons. # = Rounds to Zero.

Note: Numbers may not sum to totals due to rounding.

Source: FCC Form 477.

**Figure 35**  
**Distribution of Downstream Speeds of Fixed Connections 2021-2025**

Downstream Speed (Mbps)									
Average	270	304	355	413	427	465	493	575	600
Median	200	200	300	300	300	300	300	500	500

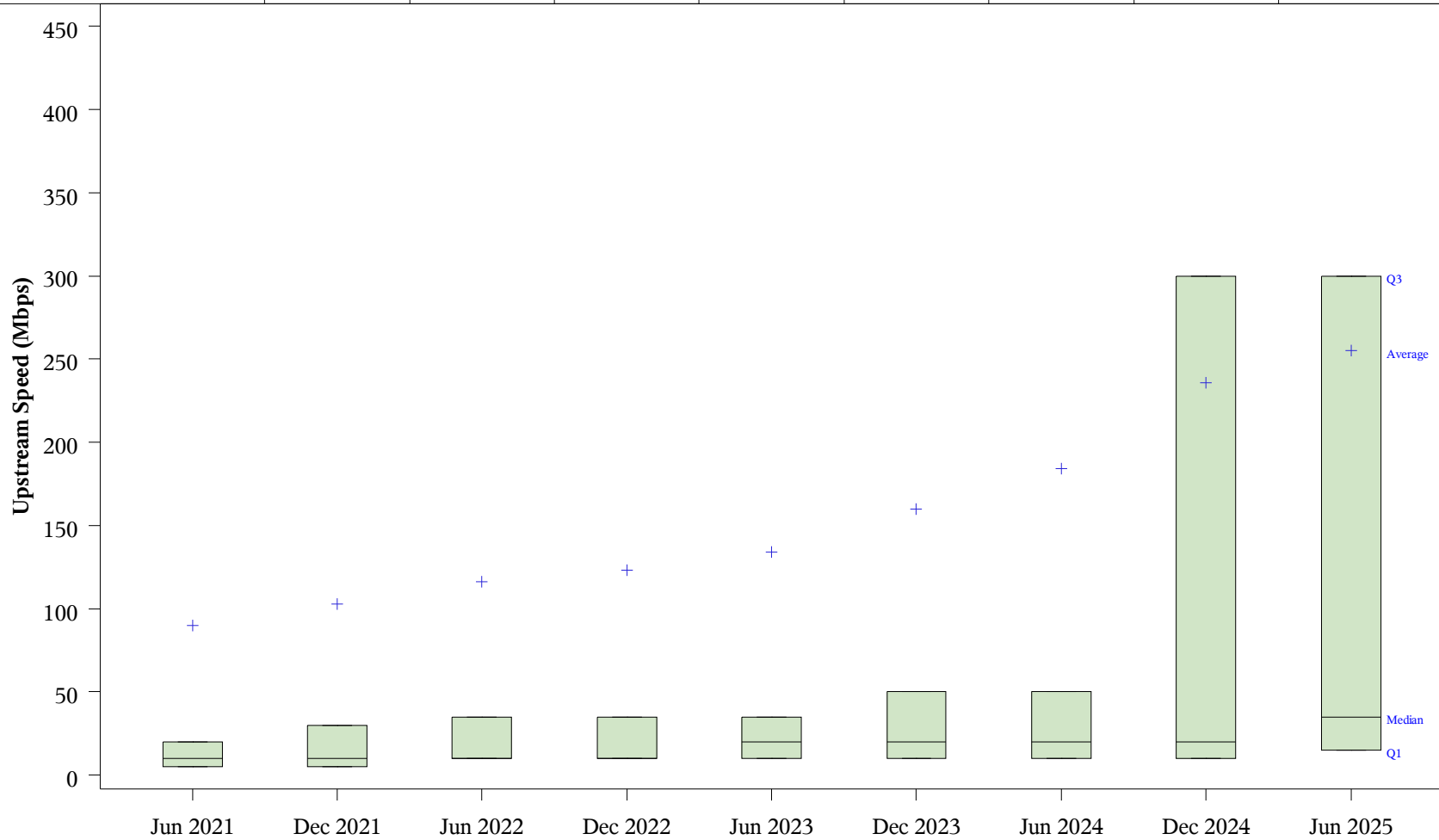


Note: Each box represents the Interquartile Range where the top line indicates the 75th percentile of downstream speeds, the middle line indicates the median downstream speed, the bottom line indicates the 25th percentile of downstream speeds, and the + denotes the position of the average downstream speed. Some previously published data may have been revised.

Source: FCC Form 477.

**Figure 36**  
**Distribution of Upstream Speeds of Fixed Connections 2021-2025**

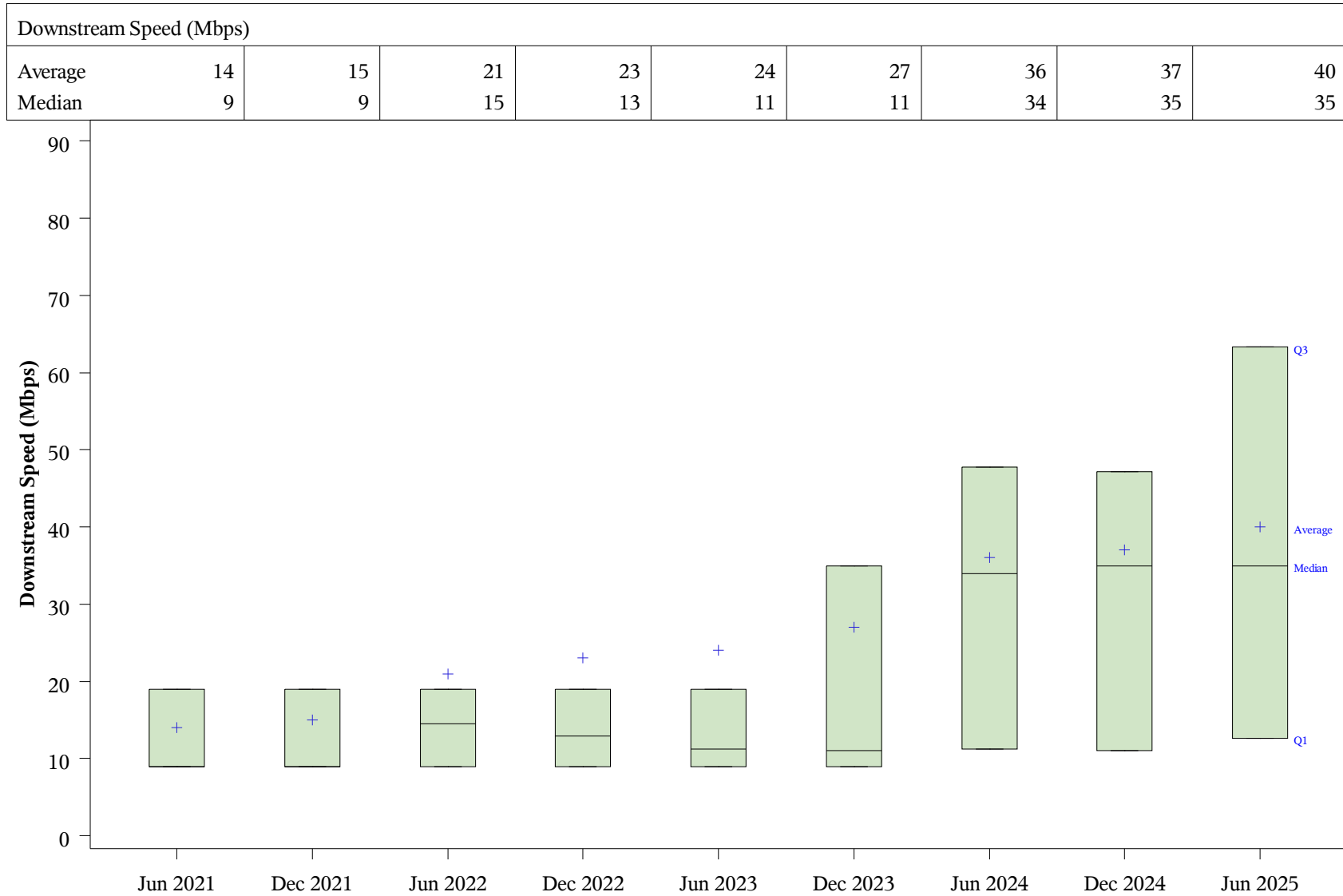
Upstream Speed (Mbps)									
Average	90	103	116	123	134	160	184	236	255
Median	10	10	10	10	20	20	20	20	35



Note: Each box represents the Interquartile Range where the top line indicates the 75th percentile of upstream speeds, the middle line indicates the median upstream speed, the bottom line indicates the 25th percentile of upstream speeds, and the + denotes the position of the average upstream speed. Some previously published data may have been revised.

Source: FCC Form 477.

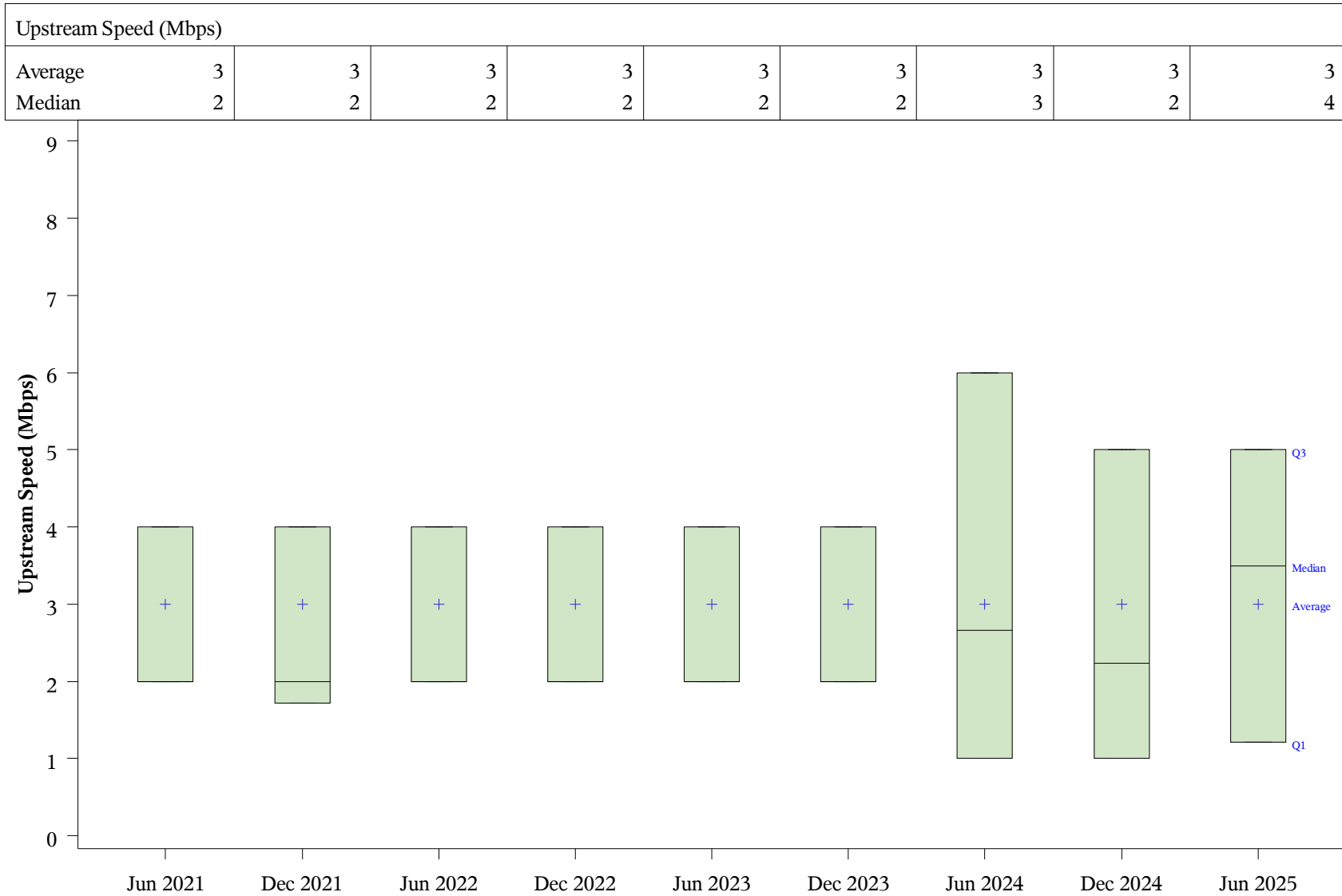
**Figure 37**  
**Distribution of Downstream Speeds of Mobile Connections 2021-2025**



Note: Each box represents the Interquartile Range where the top line indicates the 75th percentile of downstream speeds, the middle line indicates the median downstream speed, the bottom line indicates the 25th percentile of downstream speeds, and the + denotes the position of the average downstream speed. Some previously published data may have been revised.

Source: FCC Form 477.

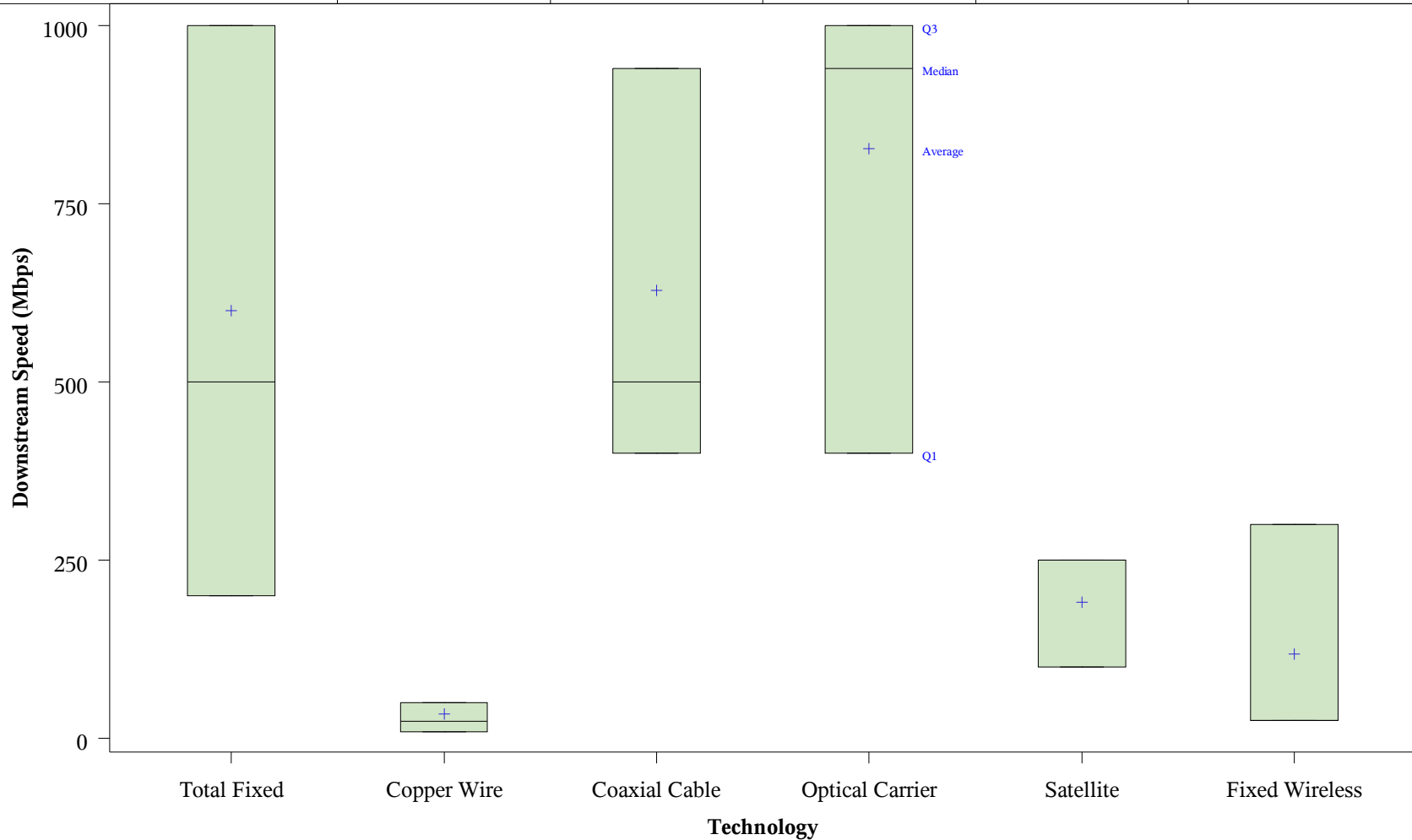
**Figure 38**  
**Distribution of Upstream Speeds of Mobile Connections 2021-2025**



Note: Each box represents the Interquartile Range where the top line indicates the 75th percentile of upstream speeds, the middle line indicates the median upstream speed, the bottom line indicates the 25th percentile of upstream speeds, and the + denotes the position of the average upstream speed. Some previously published data may have been revised.  
 Source: FCC Form 477.

**Figure 39**  
**Distribution of Downstream Speeds of Fixed Connections by Technology as of June 30, 2025**

Downstream Speed (Mbps)						
Average	600	35	629	828	191	119
Median	500	24	500	940	250	25

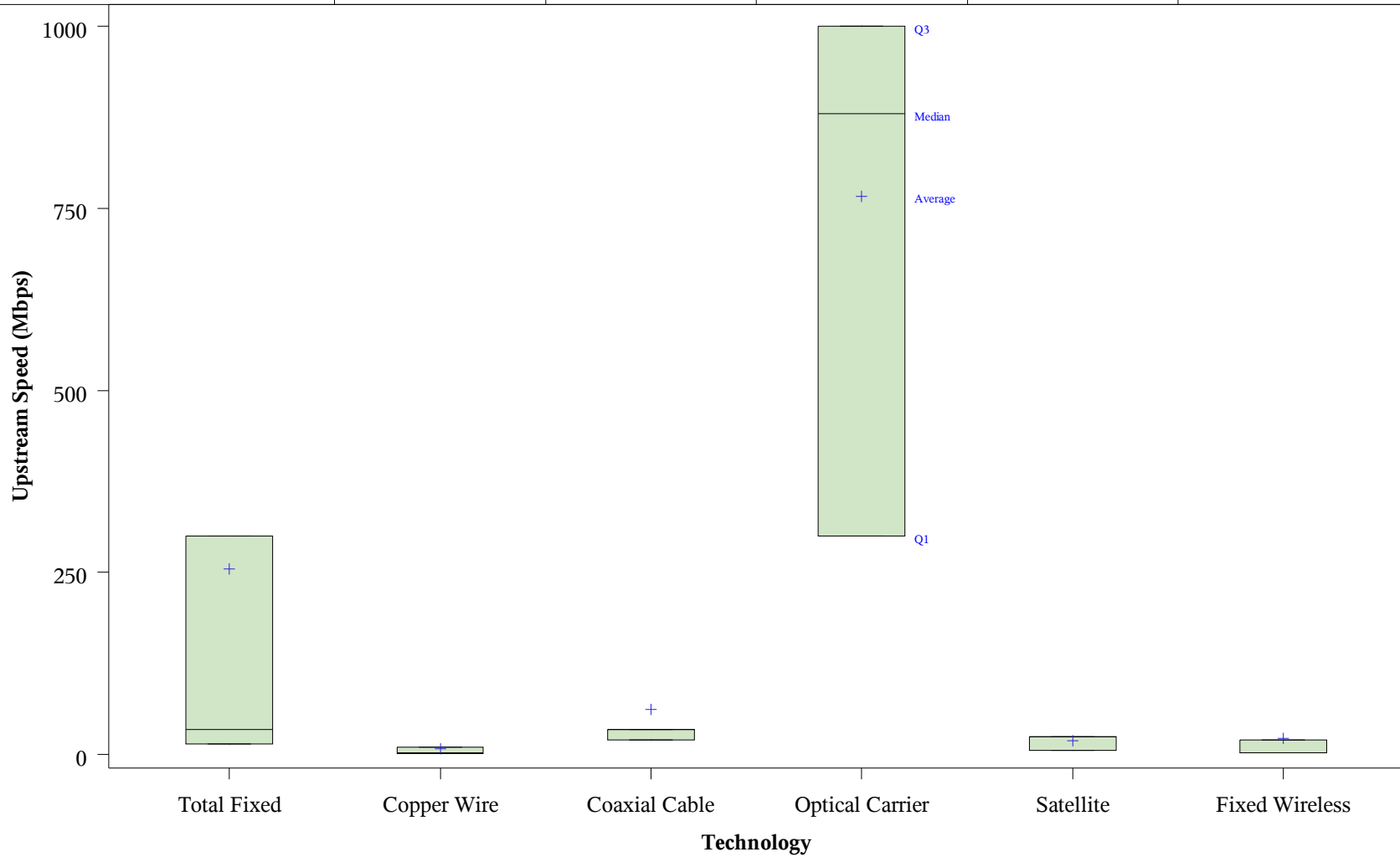


Note: Other is summarized with Copper Wire for confidentiality reasons. Each box plot shows the distribution of downstream speeds for a particular technology. Each box represents the Interquartile Range where the top line indicates the 75th percentile of downstream speeds, the middle line indicates the median downstream speed, the bottom line indicates the 25th percentile of downstream speeds, and the + denotes the position of the average downstream speed.

Source: FCC Form 477.

**Figure 40**  
**Distribution of Upstream Speeds of Fixed Connections by Technology as of June 30, 2025**

Upstream Speed (Mbps)						
Average	255	8	62	767	19	22
Median	35	2	35	880	25	3



Note: Other is summarized with Copper Wire for confidentiality reasons. Each box plot shows the distribution of upstream speeds for a particular technology. Each box represents the Interquartile Range where the top line indicates the 75th percentile of upstream speeds, the middle line indicates the median upstream speed, the bottom line indicates the 25th percentile of upstream speeds, and the + denotes the position of the average upstream speed. Source: FCC Form 477.

**Figure 41**  
**Nationwide Number of Providers of Connections over 200 kbps in at Least One Direction**  
**by Technology 2021-2025**

Technology	2021		2022		2023		2024		2025
	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun
Total	2,392	2,384	2,252	2,290	2,245	2,223	2,220	2,166	2,111
Mobile	63	62	58	58	57	53	52	53	52
Fixed	2,378	2,371	2,243	2,281	2,236	2,216	2,213	2,159	2,108
Copper Wire <sup>1</sup>	755	743	593	571	546	525	502	472	444
Coaxial Cable	362	352	313	308	312	307	295	280	276
Optical Carrier	1,477	1,505	1,474	1,522	1,544	1,563	1,574	1,557	1,543
Satellite	6	5	4	4	4	4	4	4	4
Fixed Wireless	1,383	1,359	1,240	1,256	1,199	1,173	1,163	1,138	1,096
Licensed	-	-	300	359	380	398	409	400	393
Unlicensed	-	-	1,136	1,144	1,085	1,065	1,054	1,021	987

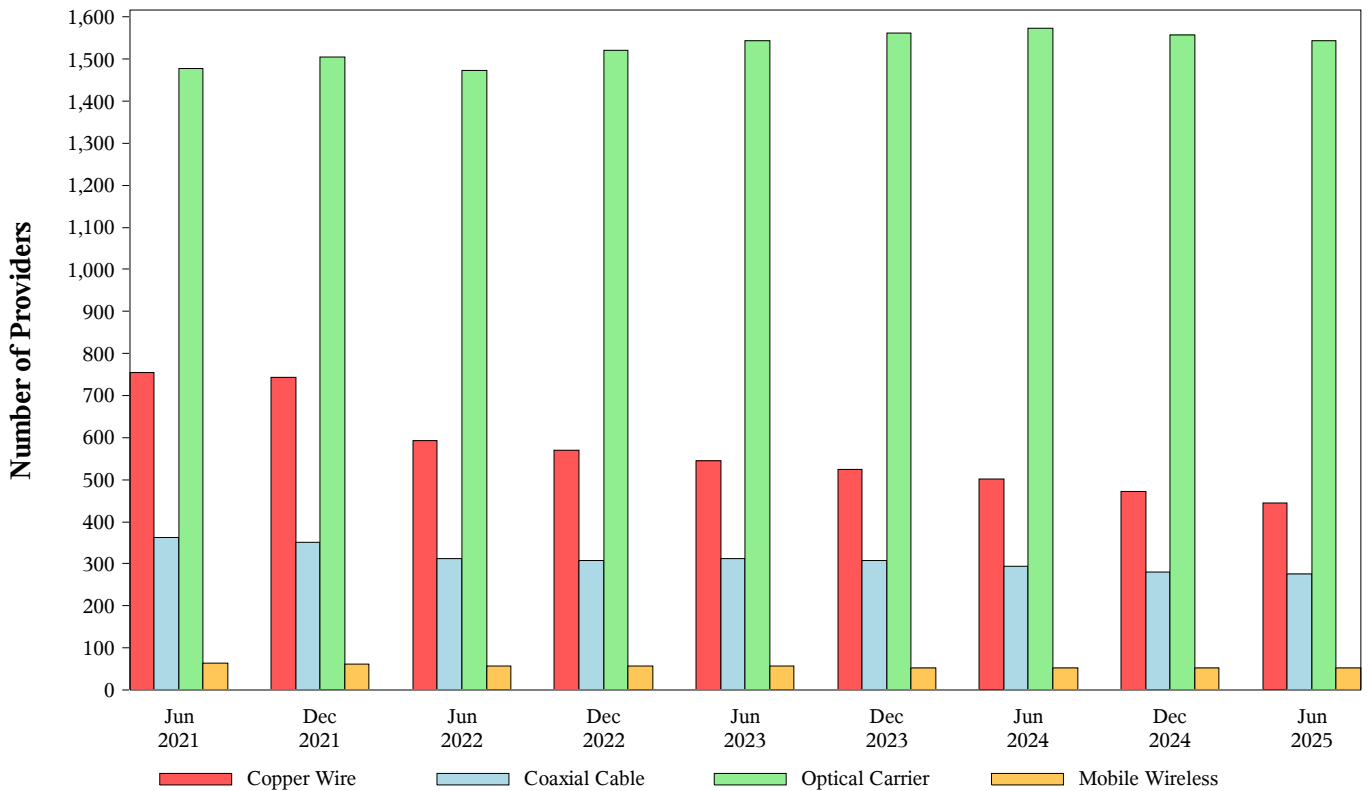
<sup>1</sup> Power Line and Other are summarized with Copper Wire for confidentiality reasons.

\* = 1 - 3 providers. - = Data not collected.

Note: Multiple FCC Form 477 filers within a holding company structure count as one provider. Some previously published data may have been revised.

Source: FCC Form 477.

**Figure 42**  
**Nationwide Number of Providers of Connections over 200 kbps in at Least One Direction**  
**Selected Technologies 2021-2025**



Note: Multiple FCC Form 477 filers within a holding company structure count as one provider. Some previously published data may have been revised.

Source: FCC Form 477.

**SECTION 4**  
**SUMMARY STATISTICS: THE STATES**

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**Figure 43**  
**Residential Fixed Connections and Households by State as of June 30, 2025**  
(Connections and households in thousands)

State	Households	At least 200 kbps in at least One Direction		At least 10 Mbps Down and 1 Mbps Up		At least 25 Mbps Down and 3 Mbps Up		At least 100 Mbps Down and 20 Mbps Up		At least 940 Mbps Down and 500 Mbps Up	
		Connections	Subscribership Ratio	Connections	Subscribership Ratio	Connections	Subscribership Ratio	Connections	Subscribership Ratio	Connections	Subscribership Ratio
Alabama	1,997	1,819	0.91	1,777	0.89	1,731	0.87	1,245	0.62	293	0.15
Alaska	271	262	0.97	258	0.95	237	0.88	181	0.67	1	0.00
American Samoa	10	*	*	*	*	*	*	*	*	0	0.00
Arizona	2,856	2,681	0.94	2,597	0.91	2,511	0.88	1,948	0.68	207	0.07
Arkansas	1,206	1,059	0.88	1,029	0.85	988	0.82	790	0.66	157	0.13
California	13,548	13,293	0.98	13,114	0.97	12,860	0.95	9,399	0.69	1,347	0.10
Colorado	2,374	2,412	1.02	2,369	1.00	2,290	0.96	1,940	0.82	217	0.09
Connecticut	1,434	1,374	0.96	1,366	0.95	1,349	0.94	1,186	0.83	234	0.16
Delaware	402	428	1.07	426	1.06	425	1.06	390	0.97	*	*
District of Columbia	324	295	0.91	293	0.90	292	0.90	262	0.81	*	*
Florida	8,753	9,141	1.04	8,980	1.03	8,884	1.01	7,055	0.81	1,294	0.15
Georgia	4,074	3,957	0.97	3,889	0.95	3,806	0.93	3,123	0.77	717	0.18
Guam	42	30	0.71	29	0.69	27	0.65	6	0.14	*	*
Hawaii	492	512	1.04	508	1.03	502	1.02	320	0.65	*	*
Idaho	713	672	0.94	644	0.90	586	0.82	447	0.63	51	0.07
Illinois	5,036	4,406	0.87	4,328	0.86	4,188	0.83	3,369	0.67	357	0.07
Indiana	2,716	2,498	0.92	2,443	0.90	2,373	0.87	1,925	0.71	374	0.14
Iowa	1,316	1,194	0.91	1,153	0.88	1,096	0.83	873	0.66	196	0.15
Kansas	1,174	1,044	0.89	1,028	0.88	997	0.85	789	0.67	272	0.23
Kentucky	1,814	1,674	0.92	1,628	0.90	1,582	0.87	1,267	0.70	307	0.17
Louisiana	1,805	1,544	0.86	1,507	0.84	1,465	0.81	1,032	0.57	210	0.12
Maine	597	569	0.95	552	0.92	530	0.89	271	0.45	20	0.03
Maryland	2,363	2,292	0.97	2,273	0.96	2,264	0.96	2,020	0.85	*	*
Massachusetts	2,785	2,716	0.98	2,691	0.97	2,688	0.97	2,337	0.84	609	0.22
Michigan	4,076	3,806	0.93	3,730	0.92	3,638	0.89	2,636	0.65	199	0.05
Minnesota	2,308	2,191	0.95	2,140	0.93	2,067	0.90	1,601	0.69	176	0.08
Mississippi	1,145	1,020	0.89	987	0.86	932	0.81	791	0.69	270	0.24
Missouri	2,508	2,223	0.89	2,176	0.87	2,105	0.84	1,672	0.67	486	0.19
Montana	459	454	0.99	435	0.95	405	0.88	234	0.51	20	0.04
Nebraska	798	719	0.90	706	0.88	684	0.86	522	0.65	76	0.10

**Figure 43 - Continued**  
**Residential Fixed Connections and Households by State as of June 30, 2025**  
(Connections and households in thousands)

State	Households	At least 200 kbps in at least One Direction		At least 10 Mbps Down and 1 Mbps Up		At least 25 Mbps Down and 3 Mbps Up		At least 100 Mbps Down and 20 Mbps Up		At least 940 Mbps Down and 500 Mbps Up	
		Connections	Subscribership Ratio	Connections	Subscribership Ratio	Connections	Subscribership Ratio	Connections	Subscribership Ratio	Connections	Subscribership Ratio
Nevada	<b>1,203</b>	1,160	0.96	1,134	0.94	1,108	0.92	945	0.79	134	0.11
New Hampshire	<b>556</b>	534	0.96	527	0.95	518	0.93	442	0.80	14	0.02
New Jersey	<b>3,508</b>	3,426	0.98	3,404	0.97	3,396	0.97	3,166	0.90	*	*
New Mexico	<b>837</b>	768	0.92	733	0.88	686	0.82	514	0.61	37	0.04
New York	<b>7,723</b>	7,190	0.93	7,154	0.93	7,118	0.92	5,402	0.70	2,227	0.29
North Carolina	<b>4,282</b>	4,447	1.04	4,357	1.02	4,295	1.00	2,911	0.68	719	0.17
North Dakota	<b>331</b>	310	0.94	308	0.93	306	0.92	291	0.88	86	0.26
Northern Mariana Isl	<b>16</b>	*	*	*	*	*	*	*	*	0	0.00
Ohio	<b>4,863</b>	4,492	0.92	4,410	0.91	4,311	0.89	2,769	0.57	446	0.09
Oklahoma	<b>1,562</b>	1,348	0.86	1,317	0.84	1,257	0.80	981	0.63	235	0.15
Oregon	<b>1,718</b>	1,627	0.95	1,589	0.92	1,550	0.90	1,220	0.71	123	0.07
Pennsylvania	<b>5,275</b>	4,902	0.93	4,789	0.91	4,755	0.90	3,922	0.74	1,164	0.22
Puerto Rico	<b>1,291</b>	827	0.64	790	0.61	701	0.54	268	0.21	20	0.02
Rhode Island	<b>442</b>	412	0.93	411	0.93	410	0.93	337	0.76	*	*
South Carolina	<b>2,118</b>	2,176	1.03	2,147	1.01	2,104	0.99	1,494	0.71	270	0.13
South Dakota	<b>366</b>	339	0.93	337	0.92	333	0.91	301	0.82	87	0.24
Tennessee	<b>2,824</b>	2,702	0.96	2,667	0.94	2,627	0.93	2,120	0.75	583	0.21
Texas	<b>10,993</b>	10,885	0.99	10,768	0.98	10,548	0.96	8,448	0.77	2,435	0.22
Utah	<b>1,125</b>	1,130	1.00	1,116	0.99	1,086	0.97	939	0.83	301	0.27
Vermont	<b>273</b>	262	0.96	250	0.91	232	0.85	205	0.75	20	0.07
Virgin Islands	<b>43</b>	29	0.67	*	*	*	*	*	*	0	0.00
Virginia	<b>3,366</b>	3,117	0.93	3,051	0.91	3,025	0.90	2,605	0.77	1,106	0.33
Washington	<b>3,065</b>	3,029	0.99	2,959	0.97	2,887	0.94	2,397	0.78	248	0.08
West Virginia	<b>729</b>	642	0.88	611	0.84	579	0.79	478	0.66	67	0.09
Wisconsin	<b>2,479</b>	2,298	0.93	2,233	0.90	2,149	0.87	1,214	0.49	147	0.06
Wyoming	<b>243</b>	229	0.94	223	0.92	214	0.88	123	0.51	19	0.08
<b>Total</b>	<b>130,629</b>	124,584	0.95	122,383	0.94	119,740	0.92	93,148	0.71	21,211	0.16

# = Rounds to Zero; \* = Data withheld for confidentiality reasons.

Note: Numbers may not sum to totals due to rounding.

Sources: FCC Form 477 (Connections); 2020-2024 ACS 5-year estimates; Census 2010.

**Figure 44**  
**Connections by Type of End User by State as of June 30, 2025**  
**(Connections in thousands)**

<i>State</i>	<i>Connections</i>		<i>Percentages</i>		<i>Total</i>
	<i>Residential</i>	<i>Business</i>	<i>Residential</i>	<i>Business</i>	
Alabama	6,749	1,261	84.3	15.7	8,010
Alaska	971	169	85.2	14.8	1,141
American Samoa	*	*	*	*	*
Arizona	10,093	1,611	86.2	13.8	11,703
Arkansas	4,047	608	86.9	13.1	4,655
California	55,436	11,706	82.6	17.4	67,142
Colorado	8,015	1,801	81.7	18.3	9,815
Connecticut	5,135	1,059	82.9	17.1	6,194
Delaware	1,484	286	83.8	16.2	1,771
District of Columbia	1,291	708	64.6	35.4	1,999
Florida	33,197	6,348	83.9	16.1	39,545
Georgia	15,270	2,889	84.1	15.9	18,159
Guam	180	39	82.1	17.9	220
Hawaii	1,973	449	81.4	18.6	2,422
Idaho	2,488	408	85.9	14.1	2,896
Illinois	17,257	3,618	82.7	17.3	20,875
Indiana	8,868	1,581	84.9	15.1	10,449
Iowa	4,208	771	84.5	15.5	4,979
Kansas	3,916	664	85.5	14.5	4,581
Kentucky	5,879	1,077	84.5	15.5	6,956
Louisiana	6,313	1,019	86.1	13.9	7,332
Maine	1,740	502	77.6	22.4	2,242
Maryland	8,810	1,594	84.7	15.3	10,405
Massachusetts	9,685	2,143	81.9	18.1	11,828
Michigan	13,139	2,767	82.6	17.4	15,906
Minnesota	7,625	1,493	83.6	16.4	9,118
Mississippi	4,063	531	88.4	11.6	4,594
Missouri	8,118	1,605	83.5	16.5	9,723
Montana	1,446	304	82.6	17.4	1,750
Nebraska	2,559	656	79.6	20.4	3,215
Nevada	4,580	713	86.5	13.5	5,293
New Hampshire	1,798	549	76.6	23.4	2,347
New Jersey	13,610	2,680	83.5	16.5	16,291
New Mexico	2,858	480	85.6	14.4	3,338
New York	28,534	5,904	82.9	17.1	34,437
North Carolina	14,337	3,370	81.0	19.0	17,707
North Dakota	1,079	195	84.7	15.3	1,274
Northern Mariana Isl	*	*	*	*	*
Ohio	15,452	3,501	81.5	18.5	18,953
Oklahoma	5,382	987	84.5	15.5	6,369
Oregon	5,569	1,255	81.6	18.4	6,824
Pennsylvania	17,799	3,422	83.9	16.1	21,220
Puerto Rico	4,132	412	90.9	9.1	4,544
Rhode Island	1,524	304	83.4	16.6	1,828
South Carolina	7,139	1,346	84.1	15.9	8,484
South Dakota	1,218	177	87.3	12.7	1,395
Tennessee	9,628	1,858	83.8	16.2	11,486
Texas	43,746	7,767	84.9	15.1	51,514
Utah	4,193	974	81.1	18.9	5,168
Vermont	777	258	75.1	24.9	1,034
Virgin Islands	113	11	91.3	8.7	124
Virginia	11,848	2,371	83.3	16.7	14,219
Washington	10,522	2,247	82.4	17.6	12,768
West Virginia	2,262	380	85.6	14.4	2,642
Wisconsin	7,395	1,745	80.9	19.1	9,140
Wyoming	792	162	83.0	17.0	954
<b>Total</b>	<b>466,340</b>	<b>92,753</b>	<b>83.4</b>	<b>16.6</b>	<b>559,093</b>

\* = Data withheld for confidentiality reasons. # = Rounds to Zero.

Note: Numbers may not sum to totals due to rounding.

Source: FCC Form 477.

**Figure 45**  
**Connections by Technology by State as of June 30, 2025**  
(in thousands)

<i>State</i>	<i>Copper Wire<sup>1</sup></i>	<i>Coaxial Cable</i>	<i>Optical Carrier</i>	<i>Other Fixed<sup>2</sup></i>	<i>Mobile Wireless</i>	<i>Total</i>
Alabama	137	919	659	257	6,038	8,010
Alaska	52	*	24	*	840	1,141
American Samoa	0	*	*	*	*	*
Arizona	273	1,609	484	507	8,831	11,703
Arkansas	109	419	462	157	3,507	4,655
California	968	9,179	2,654	1,587	52,754	67,142
Colorado	*	1,623	444	*	7,221	9,815
Connecticut	*	955	427	*	4,698	6,194
Delaware	*	*	*	33	1,313	1,771
District of Columbia	3	*	*	26	1,678	1,999
Florida	414	5,732	2,891	838	29,670	39,545
Georgia	330	2,149	1,400	411	13,869	18,159
Guam	*	*	4	2	*	220
Hawaii	15	*	*	26	1,854	2,422
Idaho	103	214	227	188	2,163	2,896
Illinois	385	2,978	783	633	16,096	20,875
Indiana	177	1,312	860	336	7,764	10,449
Iowa	125	334	640	204	3,676	4,979
Kansas	57	422	500	158	3,445	4,581
Kentucky	142	843	652	173	5,145	6,956
Louisiana	113	817	507	242	5,653	7,332
Maine	46	460	145	54	1,538	2,242
Maryland	*	1,304	957	*	7,955	10,405
Massachusetts	*	2,079	680	*	8,898	11,828
Michigan	284	2,753	566	495	11,808	15,906
Minnesota	222	1,316	561	273	6,747	9,118
Mississippi	128	339	530	118	3,479	4,594
Missouri	171	985	887	359	7,321	9,723
Montana	50	*	94	*	1,245	1,750
Nebraska	59	323	301	110	2,422	3,215

**Figure 45 - Continued**  
**Connections by Technology by State as of June 30, 2025**  
(in thousands)

<i>State</i>	<i>Copper Wire<sup>1</sup></i>	<i>Coaxial Cable</i>	<i>Optical Carrier</i>	<i>Other Fixed<sup>2</sup></i>	<i>Mobile Wireless</i>	<i>Total</i>
Nevada	71	767	225	189	4,042	5,293
New Hampshire	*	*	132	33	1,678	2,347
New Jersey	21	1,961	1,511	229	12,569	16,291
New Mexico	122	454	105	153	2,504	3,338
New York	59	4,524	2,828	426	26,599	34,437
North Carolina	214	2,743	1,401	419	12,931	17,707
North Dakota	6	158	163	28	919	1,274
Northern Mariana Isl	*	*	*	*	*	*
Ohio	291	2,933	1,086	546	14,097	18,953
Oklahoma	124	528	540	278	4,899	6,369
Oregon	95	1,109	339	223	5,056	6,824
Pennsylvania	157	3,240	1,403	470	15,951	21,220
Puerto Rico	*	*	275	99	*	4,544
Rhode Island	*	*	*	25	1,384	1,828
South Carolina	125	1,218	785	221	6,136	8,484
South Dakota	17	184	142	33	1,019	1,395
Tennessee	130	1,333	1,196	262	8,565	11,486
Texas	501	5,389	4,339	1,486	39,798	51,514
Utah	60	533	448	172	3,954	5,168
Vermont	36	177	87	25	710	1,034
Virgin Islands	0	*	*	*	*	124
Virginia	74	1,633	1,326	332	10,854	14,219
Washington	189	2,208	440	397	9,535	12,768
West Virginia	*	409	119	*	1,948	2,642
Wisconsin	223	*	590	*	6,656	9,140
Wyoming	24	118	38	74	700	954
<b>Total</b>	<b>7,346</b>	<b>74,532</b>	<b>38,444</b>	<b>14,611</b>	<b>424,160</b>	<b>559,093</b>

\* = Data withheld for confidentiality reasons. # = Rounds to Zero.

<sup>1</sup> Other is summarized with Copper Wire for confidentiality reasons.

<sup>2</sup> Fixed Wireless and Satellite are summarized as Other Fixed for confidentiality reasons.

Note: Numbers may not sum to totals due to rounding.

Source: FCC Form 477.

**Figure 46**  
**Percentage of Fixed Connections by Downstream Speed by State as of June 30, 2025**

<i>State</i>	<i>Over 200 kbps Upstream and</i>				
	<i>% over 200 kbps Downstream</i>	<i>% at least 10 Mbps Downstream</i>	<i>% at least 25 Mbps Downstream</i>	<i>% at least 100 Mbps Downstream</i>	<i>% at least 940 Mbps Downstream</i>
Alabama	99.8	98.0	95.2	81.2	25.1
Alaska	99.9	97.6	89.9	75.5	24.5
American Samoa	*	*	*	*	*
Arizona	99.7	97.2	93.9	81.3	23.0
Arkansas	99.7	97.2	93.0	78.8	24.2
California	99.9	98.4	96.3	83.7	26.8
Colorado	99.8	98.7	95.1	82.6	31.6
Connecticut	99.9	99.2	98.3	90.4	35.2
Delaware	99.9	99.4	99.3	90.1	51.8
District of Columbia	99.9	99.4	99.1	88.5	46.1
Florida	99.8	98.5	97.3	86.3	29.3
Georgia	99.8	98.2	96.1	82.7	33.2
Guam	100.0	94.7	88.7	53.0	*
Hawaii	99.9	98.4	96.9	*	*
Idaho	99.1	96.7	88.2	70.7	19.8
Illinois	99.9	98.2	95.1	77.0	26.3
Indiana	99.7	97.9	95.0	80.2	27.0
Iowa	99.7	97.2	92.2	73.7	26.6
Kansas	99.8	98.4	95.1	83.0	35.1
Kentucky	99.8	97.4	95.0	82.6	21.2
Louisiana	99.6	97.6	94.6	81.4	25.0
Maine	99.7	96.3	93.2	84.8	23.3
Maryland	99.9	99.2	98.8	88.4	54.0
Massachusetts	99.9	99.1	99.0	91.3	43.6
Michigan	99.9	98.0	95.6	80.6	21.3
Minnesota	99.8	98.2	95.0	79.0	25.7
Mississippi	99.8	96.6	91.2	77.3	35.9
Missouri	99.7	98.0	94.5	80.0	27.1
Montana	99.4	96.9	89.8	76.8	11.2
Nebraska	99.9	98.3	95.2	82.9	20.4

**Figure 46 - Continued**  
**Percentage of Fixed Connections by Downstream Speed by State as of June 30, 2025**

<i>State</i>	<i>Over 200 kbps Upstream and</i>				
	<i>% over 200 kbps Downstream</i>	<i>% at least 10 Mbps Downstream</i>	<i>% at least 25 Mbps Downstream</i>	<i>% at least 100 Mbps Downstream</i>	<i>% at least 940 Mbps Downstream</i>
Nevada	99.5	98.0	95.8	85.5	24.5
New Hampshire	99.7	97.7	96.4	89.5	35.7
New Jersey	99.9	99.4	99.2	92.7	55.2
New Mexico	99.5	96.5	90.1	70.0	20.7
New York	99.9	99.5	99.0	93.5	40.0
North Carolina	99.7	98.3	96.5	87.8	26.8
North Dakota	99.8	99.4	98.6	93.7	49.5
Northern Mariana Isl	*	*	*	*	*
Ohio	99.8	98.3	96.0	84.0	19.8
Oklahoma	99.7	97.4	92.8	78.1	27.4
Oregon	99.8	98.3	95.4	82.4	28.1
Pennsylvania	99.8	98.1	97.1	85.2	40.0
Puerto Rico	99.9	95.2	85.9	44.5	2.6
Rhode Island	99.7	99.3	99.3	94.6	57.8
South Carolina	99.9	98.7	96.6	85.2	23.0
South Dakota	99.8	99.3	98.1	89.1	50.3
Tennessee	99.9	98.7	97.1	85.4	32.3
Texas	99.8	98.8	96.7	84.3	32.7
Utah	99.8	98.9	96.2	83.8	43.9
Vermont	99.6	94.7	90.3	80.5	30.2
Virgin Islands	*	*	*	*	*
Virginia	99.6	98.2	97.0	87.9	47.8
Washington	99.7	98.3	95.5	83.3	31.0
West Virginia	99.5	95.2	90.5	78.3	27.6
Wisconsin	99.7	97.8	93.7	81.4	13.8
Wyoming	99.7	98.1	93.8	74.8	16.6
Total	99.8	98.3	96.1	84.1	30.9

\* = Data withheld for confidentiality reasons.

Source: FCC Form 477.

**Figure 47**  
**Providers of Connections by Technology by State as of June 30, 2025**  
(Connections over 200 kbps in at least one direction)

<i>State</i>	<i>Copper Wire<sup>1</sup></i>	<i>Coaxial Cable</i>	<i>Optical Carrier</i>	<i>Satellite</i>	<i>Fixed Wireless</i>	<i>Mobile Wireless</i>	<i>Unduplicated Total</i>
Alabama	21	13	48	*	15	7	71
Alaska	13	*	17	*	14	11	30
American Samoa	0	*	*	*	*	*	*
Arizona	21	11	47	*	48	6	87
Arkansas	17	13	56	*	30	5	87
California	27	25	81	*	105	6	168
Colorado	24	10	82	*	59	9	118
Connecticut	4	5	13	*	4	5	21
Delaware	*	4	11	*	6	5	20
District of Columbia	5	*	14	*	8	5	22
Florida	17	16	64	*	28	5	87
Georgia	21	19	76	*	22	6	97
Guam	*	*	5	*	4	*	6
Hawaii	5	*	8	*	5	4	15
Idaho	20	13	46	*	38	8	68
Illinois	30	13	90	*	65	6	135
Indiana	26	9	79	*	52	5	110
Iowa	33	25	185	*	69	6	213
Kansas	19	22	63	*	46	9	93
Kentucky	13	24	62	*	24	6	92
Louisiana	12	13	38	*	24	6	65
Maine	10	4	18	*	9	6	32
Maryland	7	13	39	*	21	6	56
Massachusetts	7	6	29	*	10	5	40
Michigan	26	17	75	*	42	7	106
Minnesota	32	15	89	*	45	5	117
Mississippi	16	10	43	*	9	6	60
Missouri	26	13	87	*	67	6	129
Montana	16	4	36	*	31	6	57
Nebraska	18	16	55	*	34	7	80

**Figure 47 - Continued**  
**Providers of Connections by Technology by State as of June 30, 2025**  
(Connections over 200 kbps in at least one direction)

<i>State</i>	<i>Copper Wire<sup>1</sup></i>	<i>Coaxial Cable</i>	<i>Optical Carrier</i>	<i>Satellite</i>	<i>Fixed Wireless</i>	<i>Mobile Wireless</i>	<i>Unduplicated Total</i>
Nevada	15	7	33	*	30	6	61
New Hampshire	6	*	18	*	7	6	28
New Jersey	10	7	25	*	7	5	34
New Mexico	18	7	36	*	37	6	65
New York	27	12	58	*	21	5	79
North Carolina	19	19	54	*	20	7	74
North Dakota	7	6	32	*	9	6	43
Northern Mariana Isl	*	*	*	0	*	*	*
Ohio	26	24	77	*	55	5	123
Oklahoma	35	7	70	*	44	9	100
Oregon	24	12	57	*	42	7	86
Pennsylvania	18	23	65	*	34	7	100
Puerto Rico	4	*	23	*	41	*	51
Rhode Island	4	5	7	*	4	5	18
South Carolina	16	11	34	*	9	6	46
South Dakota	10	8	42	*	20	9	62
Tennessee	16	13	71	*	20	6	91
Texas	52	20	142	4	138	6	228
Utah	14	8	36	*	37	8	60
Vermont	9	5	21	*	11	7	34
Virgin Islands	0	*	4	*	*	*	7
Virginia	19	13	57	*	26	7	84
Washington	18	20	68	*	48	7	96
West Virginia	7	11	26	*	24	7	60
Wisconsin	26	13	71	*	39	7	98
Wyoming	10	5	23	*	21	9	42
<b>Total</b>	<b>444</b>	<b>276</b>	<b>1,543</b>	<b>4</b>	<b>1,096</b>	<b>52</b>	<b>2,111</b>

\* = 1 to 3 providers.

<sup>1</sup> Other is summarized with Copper Wire for confidentiality reasons.

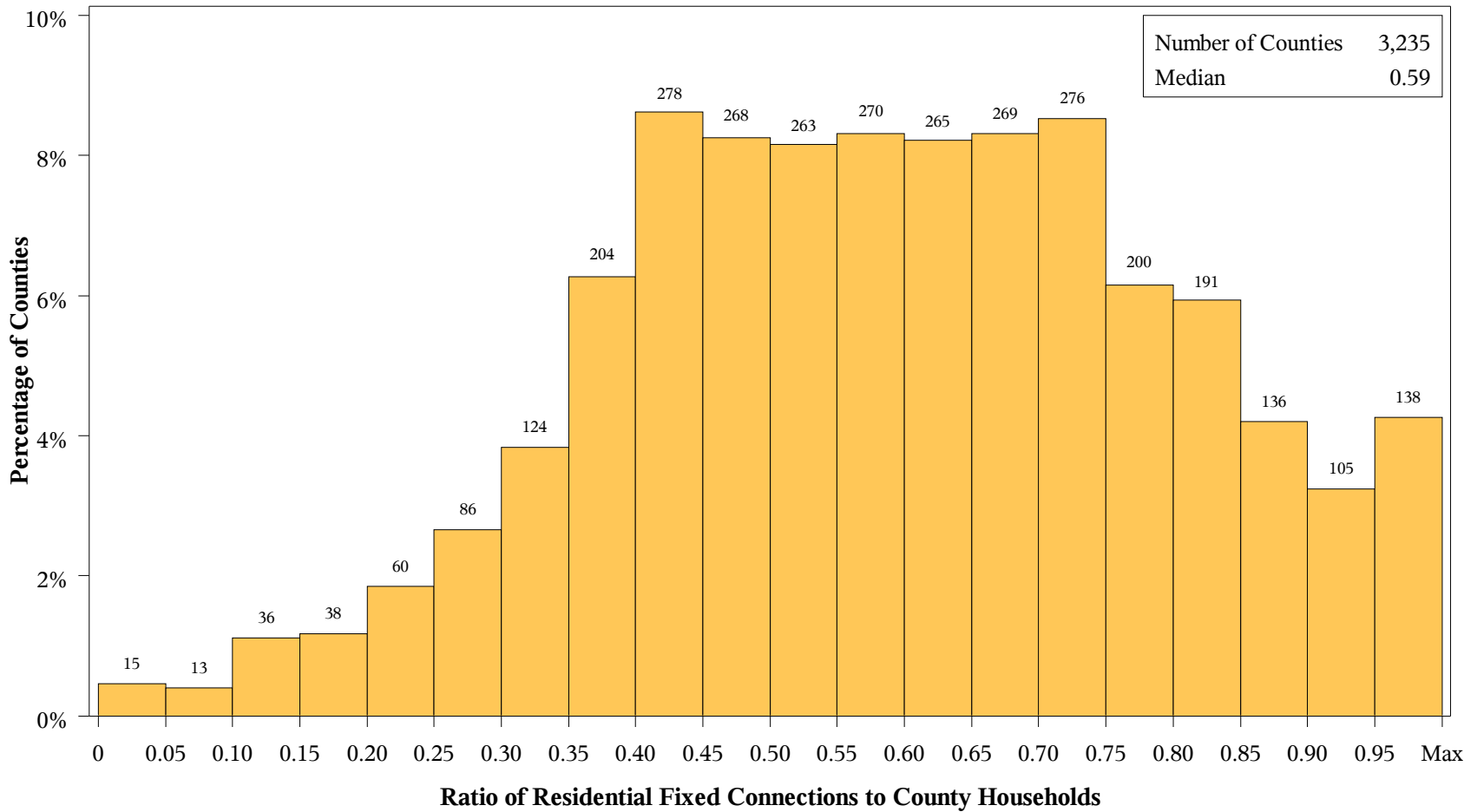
Source: FCC Form 477.

**SECTION 5**  
**SUMMARY STATISTICS: COUNTIES AND CENSUS TRACTS**

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**Figure 48**  
**Distribution of Counties by Ratio of Residential Fixed Connections to County Households as of June 30, 2025**  
 (Connections at least 100 Mbps downstream and 20 Mbps upstream)



Note: Ratios over 1 were set to 1. See Technical Notes at the end of the report.  
 Sources: FCC Form 477; 2020-2024 ACS 5-year estimates; and Census 2010.

**Figure 49**  
**Distribution of Counties by Ratio of Residential Fixed Connections to Households by Technology as of June 30, 2025**  
**(Connections at least 100 Mbps downstream and 20 Mbps upstream)**

<i>Technology</i>	<i>Ratio of Residential Fixed Connections to County Households</i>										
	<i>Zero</i>	<i>&gt; 0.00 and ≤ 0.05</i>	<i>&gt; 0.05 and ≤ 0.10</i>	<i>&gt; 0.10 and ≤ 0.20</i>	<i>&gt; 0.20 and ≤ 0.30</i>	<i>&gt; 0.30 and ≤ 0.40</i>	<i>&gt; 0.40 and ≤ 0.50</i>	<i>&gt; 0.50 and ≤ 0.60</i>	<i>&gt; 0.60 and ≤ 0.80</i>	<i>&gt; 0.80 and ≤ 1.00</i>	<i>&gt; 1.00</i>
Any Technology	0.2	0.2	0.4	2.3	4.5	10.1	16.9	16.5	31.2	14.8	2.8
Satellite	2.1	65.3	17.7	10.3	2.8	0.6	0.4	0.2	0.3	0.1	0.1
Terrestrial	0.4	1.2	1.5	5.3	7.4	12.7	14.9	14.7	27.4	12.5	2.0
Fixed Wireless	4.0	87.2	6.7	1.6	0.3	0.1	0.0	0.0	0.0	0.0	0.0
Licensed	4.9	89.8	4.2	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0
Unlicensed	55.1	43.6	0.8	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Wireline	0.7	1.6	1.7	6.1	8.7	13.4	14.9	14.5	26.0	10.5	1.9
Copper Wire <sup>1</sup>	61.4	33.9	3.5	0.9	0.2	0.0	0.0	0.1	0.0	0.0	0.0
Coaxial Cable	13.5	7.0	8.5	19.7	18.0	13.1	8.9	6.1	4.5	0.3	0.3
Optical Carrier	2.4	13.2	10.1	21.0	15.7	12.5	9.0	5.9	6.4	3.0	0.8

<sup>1</sup> Other is summarized with Copper Wire for confidentiality reasons.

Note: Each cell indicates the share of 3,235 counties where the ratio of residential fixed connections to households falls within the given range. Numbers may not sum to totals due to rounding.

Sources: FCC Form 477; 2020-2024 ACS 5-year estimates; and Census 2010.

**Figure 50**  
**Distribution of Counties by Ratio of Residential Fixed Connections to Households by State as of June 30, 2025**  
**(Connections at least 100 Mbps downstream and 20 Mbps upstream)**

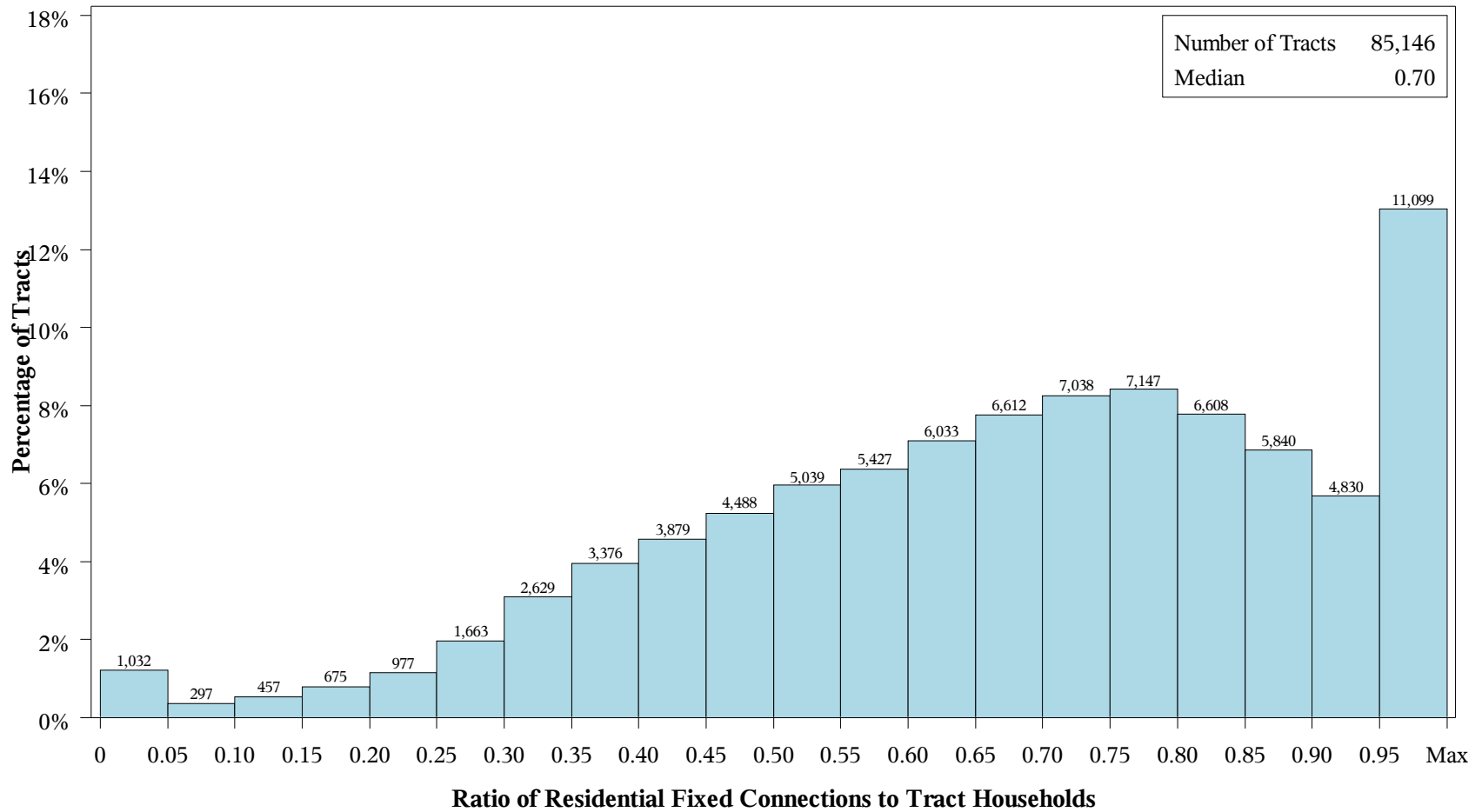
State	Counties	Ratio of Residential Fixed Connections to County Households										
		Zero	> 0.00 and ≤ 0.05	> 0.05 and ≤ 0.10	> 0.10 and ≤ 0.20	> 0.20 and ≤ 0.30	> 0.30 and ≤ 0.40	> 0.40 and ≤ 0.50	> 0.50 and ≤ 0.60	> 0.60 and ≤ 0.80	> 0.80 and ≤ 1.00	> 1.00
Alabama	67	0	0	0	3	12	9	8	8	24	2	1
Alaska	30	0	0	0	0	2	0	3	0	10	9	6
American Samoa	5	4	1	0	0	0	0	0	0	0	0	0
Arizona	15	0	0	0	1	0	1	2	3	8	0	0
Arkansas	75	0	0	0	1	3	6	13	17	27	8	0
California	58	0	0	0	0	1	5	5	7	24	14	2
Colorado	64	0	0	0	3	9	5	10	7	11	13	6
Connecticut	9	0	0	0	0	0	0	0	0	2	7	0
Delaware	3	0	0	0	0	0	0	0	0	0	2	1
District of Columbia	1	0	0	0	0	0	0	0	0	0	1	0
Florida	67	0	0	0	0	2	3	6	9	23	20	4
Georgia	159	0	0	1	3	2	14	30	24	54	30	1
Guam	1	0	0	0	1	0	0	0	0	0	0	0
Hawaii	5	0	0	0	0	0	1	0	0	3	1	0
Idaho	44	0	0	0	1	3	5	16	3	15	0	1
Illinois	102	0	0	0	1	7	6	11	34	37	5	1
Indiana	92	0	0	0	0	0	3	9	23	47	10	0
Iowa	99	0	0	0	1	1	5	19	31	39	1	2
Kansas	105	0	0	0	2	8	11	18	18	36	12	0
Kentucky	120	0	0	0	1	4	11	16	22	48	17	1
Louisiana	64	0	0	0	0	7	18	11	12	16	0	0
Maine	16	0	0	0	0	0	6	7	2	0	1	0
Maryland	24	0	0	0	0	0	0	0	3	7	13	1
Massachusetts	14	0	0	0	0	0	0	1	1	3	6	3
Michigan	83	0	0	0	1	5	20	19	13	23	2	0
Minnesota	87	0	0	0	1	1	5	20	18	32	8	2
Mississippi	82	0	0	1	3	7	11	10	4	30	13	3
Missouri	115	0	0	1	1	7	12	33	18	37	4	2
Montana	56	0	0	1	3	8	7	12	3	9	10	3
Nebraska	93	0	0	0	7	8	8	16	24	28	0	2

**Figure 50 - Continued**  
**Distribution of Counties by Ratio of Residential Fixed Connections to Households by State as of June 30, 2025**  
**(Connections at least 100 Mbps downstream and 20 Mbps upstream)**

State	Counties	Ratio of Residential Fixed Connections to County Households										
		Zero	> 0.00 and ≤ 0.05	> 0.05 and ≤ 0.10	> 0.10 and ≤ 0.20	> 0.20 and ≤ 0.30	> 0.30 and ≤ 0.40	> 0.40 and ≤ 0.50	> 0.50 and ≤ 0.60	> 0.60 and ≤ 0.80	> 0.80 and ≤ 1.00	> 1.00
Nevada	17	0	0	0	1	1	2	2	3	4	4	0
New Hampshire	10	0	0	0	0	0	2	0	0	2	5	1
New Jersey	21	0	0	0	0	0	0	0	1	1	17	2
New Mexico	33	0	0	0	1	0	6	4	7	12	3	0
New York	62	0	0	0	0	0	10	22	9	14	5	2
North Carolina	100	0	0	0	0	0	7	22	20	38	7	6
North Dakota	53	0	0	0	0	0	0	0	0	7	34	12
Northern Mariana Isl	4	3	1	0	0	0	0	0	0	0	0	0
Ohio	88	0	0	0	0	3	25	27	17	12	4	0
Oklahoma	77	0	0	0	0	2	15	15	14	21	9	1
Oregon	36	0	0	0	0	1	3	12	7	9	4	0
Pennsylvania	67	0	0	0	0	1	6	6	9	34	11	0
Puerto Rico	78	0	6	9	37	20	6	0	0	0	0	0
Rhode Island	5	0	0	0	0	0	0	0	0	3	2	0
South Carolina	46	0	0	0	0	4	4	9	5	14	8	2
South Dakota	66	0	0	0	0	1	0	3	4	15	37	6
Tennessee	95	0	0	0	0	0	4	6	15	39	29	2
Texas	254	0	0	0	1	3	28	52	51	81	33	5
Utah	29	0	0	0	0	2	0	2	1	6	12	6
Vermont	14	0	0	0	0	0	1	1	3	4	4	1
Virgin Islands	3	0	0	0	0	0	0	1	1	1	0	0
Virginia	133	0	0	0	0	3	7	17	16	56	33	1
Washington	39	0	0	0	0	1	3	10	7	10	7	1
West Virginia	55	0	0	0	0	1	9	7	16	20	2	0
Wisconsin	72	0	0	0	0	5	16	25	14	11	1	0
Wyoming	23	0	0	0	0	1	2	8	9	3	0	0
Total	3,235	7	8	13	74	146	328	546	533	1010	480	90

Sources: FCC Form 477; 2020-2024 ACS 5-year estimates; and Census 2010.

**Figure 51**  
**Distribution of Census Tracts by Ratio of Residential Fixed Connections to Households as of June 30, 2025**  
 (Connections at least 100 Mbps downstream and 20 Mbps upstream)



Note: Ratios over 1 were set to 1. See Technical Notes at the end of the report.  
 Sources: FCC Form 477; 2020-2024 ACS 5-year estimates; and Census 2010.

**Figure 52**  
**Distribution of Census Tracts by Ratio of Residential Fixed Connections to Households by Technology as of June 30, 2025**  
**(Connections at least 100 Mbps downstream and 20 Mbps upstream)**

<i>Technology</i>	<i>Ratio of Residential Fixed Connections to Tract Households</i>										
	<i>Zero</i>	<i>&gt; 0.00 and ≤ 0.05</i>	<i>&gt; 0.05 and ≤ 0.10</i>	<i>&gt; 0.10 and ≤ 0.20</i>	<i>&gt; 0.20 and ≤ 0.30</i>	<i>&gt; 0.30 and ≤ 0.40</i>	<i>&gt; 0.40 and ≤ 0.50</i>	<i>&gt; 0.50 and ≤ 0.60</i>	<i>&gt; 0.60 and ≤ 0.80</i>	<i>&gt; 0.80 and ≤ 1.00</i>	<i>&gt; 1.00</i>
Any Technology	0.9	0.3	0.3	1.3	3.1	7.1	9.8	12.3	31.5	24.5	8.8
Satellite	15.5	74.7	4.7	3.3	1.0	0.4	0.2	0.1	0.1	0.0	0.1
Terrestrial	1.0	1.0	0.8	2.2	3.8	7.0	9.5	11.9	30.8	23.8	8.2
Fixed Wireless	3.1	86.0	8.8	1.6	0.3	0.1	0.0	0.0	0.0	0.0	0.0
Licensed	3.5	87.6	7.9	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Unlicensed	88.0	10.9	0.7	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Wireline	1.6	1.0	0.9	2.5	4.5	7.7	10.2	12.6	30.8	21.3	7.0
Copper Wire <sup>1</sup>	88.9	9.7	1.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coaxial Cable	5.6	3.0	2.7	7.8	16.1	20.8	16.0	10.8	12.3	3.6	1.2
Optical Carrier	12.6	13.3	8.7	15.7	14.0	11.4	8.5	6.1	6.7	2.0	0.9

<sup>1</sup> Other is summarized with Copper Wire for confidentiality reasons.

Note: Each cell indicates the share of 85,160 Census Tracts where the ratio of residential fixed connections to households falls within the given range. Numbers may not sum to totals due to rounding.

Sources: FCC Form 477; 2020-2024 ACS 5-year estimates; and Census 2010.

**Figure 53**  
**Distribution of Census Tracts by Ratio of Residential Fixed Connections to Households by State as of June 30, 2025**  
**(Connections at least 100 Mbps downstream and 20 Mbps upstream)**

State	Tracts	Ratio of Residential Fixed Connections to Tract Households										
		Zero	> 0.00 and ≤ 0.05	> 0.05 and ≤ 0.10	> 0.10 and ≤ 0.20	> 0.20 and ≤ 0.30	> 0.30 and ≤ 0.40	> 0.40 and ≤ 0.50	> 0.50 and ≤ 0.60	> 0.60 and ≤ 0.80	> 0.80 and ≤ 1.00	> 1.00
Alabama	1,435	6	2	12	37	134	163	191	213	393	210	74
Alaska	177	2	0	0	1	6	10	17	27	62	37	15
American Samoa	18	17	1	0	0	0	0	0	0	0	0	0
Arizona	1,765	29	11	14	43	43	96	156	249	680	323	121
Arkansas	823	1	1	7	12	40	64	100	115	302	152	29
California	9,107	60	8	13	32	131	485	1,106	1,469	3,289	1,972	542
Colorado	1,447	17	0	2	16	34	73	50	89	399	572	195
Connecticut	879	6	0	1	0	0	5	30	67	250	372	148
Delaware	259	3	0	1	0	1	1	4	5	49	115	80
District of Columbia	206	2	0	0	0	0	1	12	23	55	77	36
Florida	5,114	40	8	5	17	54	131	296	539	1,730	1,411	883
Georgia	2,791	11	2	4	20	50	124	208	322	816	871	363
Guam	56	6	14	9	14	5	3	2	0	0	0	3
Hawaii	436	13	8	1	0	7	42	78	119	100	28	40
Idaho	456	0	0	2	14	15	37	45	99	174	50	20
Illinois	3,263	6	3	5	42	81	196	363	493	1,340	662	72
Indiana	1,693	10	0	3	11	38	75	133	231	707	397	88
Iowa	896	3	1	0	13	33	54	127	155	343	135	32
Kansas	829	12	0	3	22	36	53	89	118	284	180	32
Kentucky	1,306	9	2	2	18	59	91	134	142	448	324	77
Louisiana	1,376	11	4	17	54	137	160	217	205	398	147	26
Maine	400	0	0	2	5	53	129	92	42	43	23	11
Maryland	1,463	7	2	1	2	4	21	42	111	383	632	258
Massachusetts	1,613	19	2	2	2	18	105	59	55	349	730	272
Michigan	2,971	77	1	2	28	150	363	362	340	871	678	99
Minnesota	1,502	4	3	3	19	61	107	135	178	506	385	101
Mississippi	875	4	3	6	35	52	77	78	88	252	194	86
Missouri	1,654	4	1	4	35	80	145	155	218	561	383	68
Montana	319	2	0	6	12	25	68	76	42	45	29	14
Nebraska	553	2	1	0	10	18	30	52	89	267	68	16

**Figure 53 - Continued**  
**Distribution of Census Tracts by Ratio of Residential Fixed Connections to Tract Households by State as of June 30, 2025**  
**(Connections at least 100 Mbps downstream and 20 Mbps upstream)**

State	Tracts	Zero	Ratio of Residential Fixed Connections to Tract Households									
			> 0.00 and ≤ 0.05	> 0.05 and ≤ 0.10	> 0.10 and ≤ 0.20	> 0.20 and ≤ 0.30	> 0.30 and ≤ 0.40	> 0.40 and ≤ 0.50	> 0.50 and ≤ 0.60	> 0.60 and ≤ 0.80	> 0.80 and ≤ 1.00	> 1.00
Nevada	775	4	0	0	6	8	15	23	62	350	232	75
New Hampshire	349	2	1	0	4	16	9	12	18	118	114	55
New Jersey	2,175	9	2	5	7	3	4	15	58	490	1,137	445
New Mexico	612	11	4	8	33	38	47	61	94	221	68	27
New York	5,379	132	8	5	31	143	534	526	606	1,682	1,194	518
North Carolina	2,660	20	5	0	12	53	261	424	415	807	437	226
North Dakota	228	0	2	0	0	0	1	2	10	48	118	47
Northern Mariana Isl	23	18	5	0	0	0	0	0	0	0	0	0
Ohio	3,162	12	0	4	29	174	514	593	600	836	350	50
Oklahoma	1,205	11	2	1	21	62	121	154	200	421	161	51
Oregon	994	2	0	0	6	20	79	121	104	305	312	45
Pennsylvania	3,445	45	0	9	26	83	145	203	356	1,217	1,083	278
Puerto Rico	939	24	96	121	306	197	103	37	25	25	2	3
Rhode Island	247	1	0	0	0	0	0	3	19	136	75	13
South Carolina	1,317	13	2	2	13	64	138	169	194	367	212	143
South Dakota	242	0	1	1	1	1	6	7	10	79	109	27
Tennessee	1,701	24	0	1	5	17	83	150	209	577	461	174
Texas	6,883	52	10	6	54	159	431	667	804	2,111	1,713	876
Utah	716	6	3	1	3	9	13	23	43	213	261	141
Vermont	193	1	2	0	1	5	19	10	18	64	44	29
Virgin Islands	29	0	0	0	6	8	8	0	0	2	1	4
Virginia	2,186	27	3	4	8	30	90	139	198	667	783	237
Washington	1,772	3	2	0	7	39	85	126	122	481	712	195
West Virginia	546	1	0	0	6	14	40	57	96	225	95	12
Wisconsin	1,526	2	2	2	30	128	317	396	325	255	53	16
Wyoming	160	1	0	0	3	4	33	40	37	37	3	2
Total	85,146	804	228	297	1,132	2,640	6,005	8,367	10,466	26,830	20,887	7,490

Sources: FCC Form 477; 2020-2024 ACS 5-year estimates; and Census 2010.

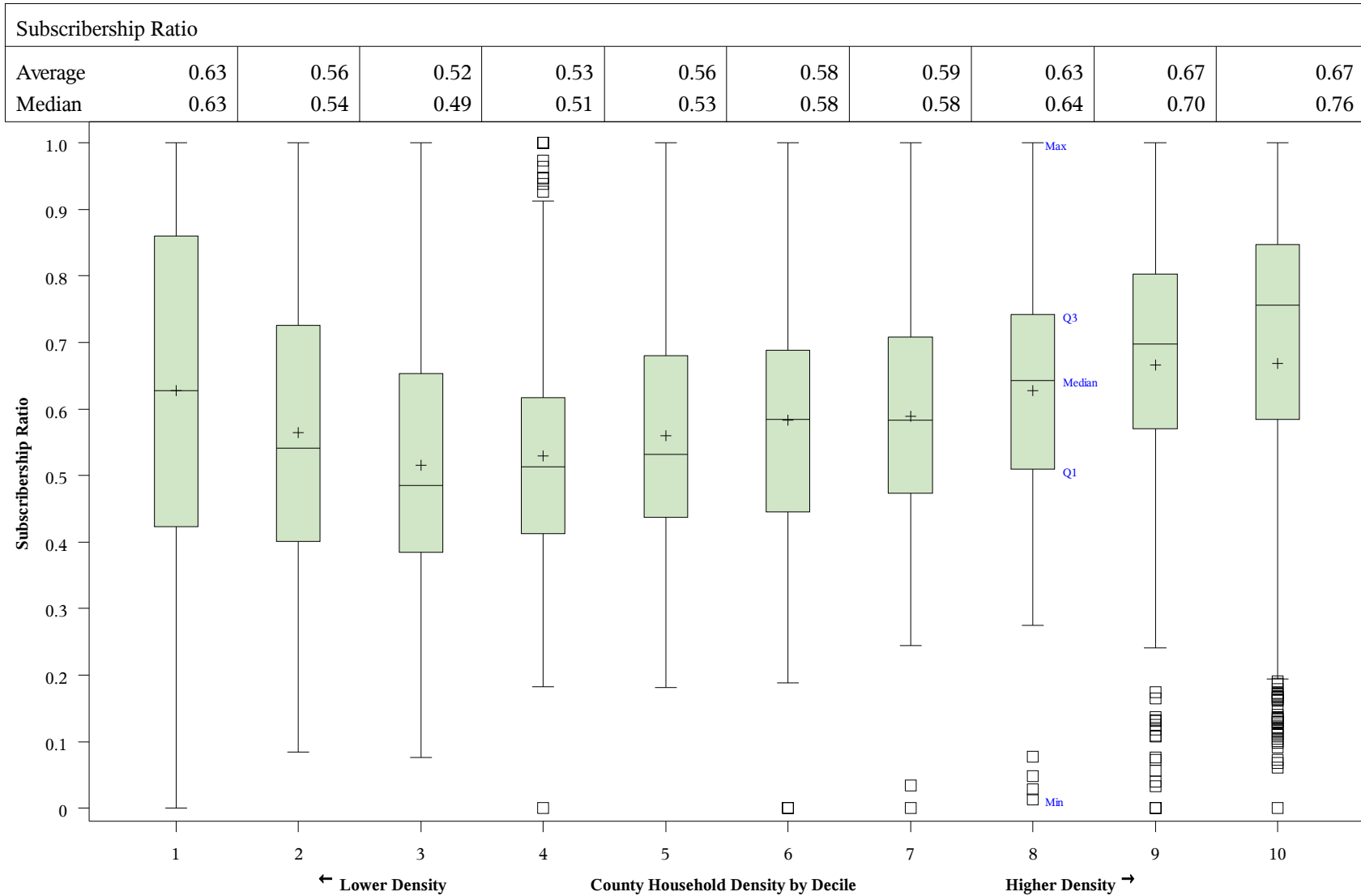
**SECTION 6**  
**CORRELATED RESULTS: DEMOGRAPHIC MEASURES**

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**Figure 55**  
**County Subscriberhip Ratio Distributions by Density Deciles as of June 30, 2025**  
 (Residential fixed connections at least 100 Mbps downstream and 20 Mbps upstream)



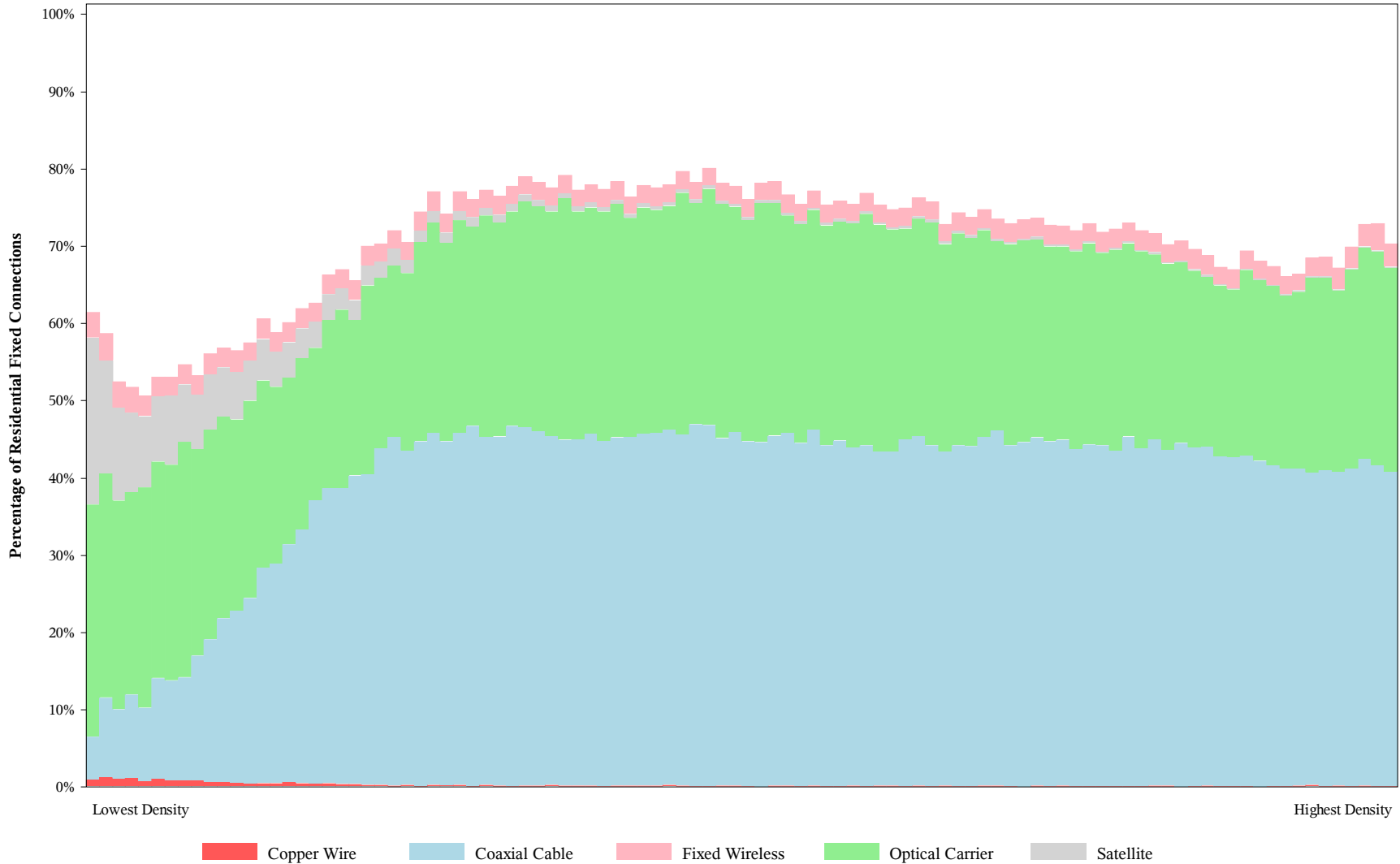
Note: Each box plot shows the distribution of residential subscribership to connections at least 100 Mbps downstream and 20 Mbps upstream for counties in the density decile. Some of the features are labeled, but note also that + denotes the position of the average residential subscribership ratio taken across all counties in the decile; 1 is the minimum observation above  $Q1-1.5(Q3-Q1)$ ; T is the maximum observation below  $Q3+1.5(Q3-Q1)$ ; and □ is any data point beyond  $Q1-1.5(Q3-Q1)$  or  $Q3+1.5(Q3-Q1)$ . Ratios greater than 1 were set to 1.

Sources: FCC Form 477; 2020-2024 ACS 5-year Estimates; and Census 2010.



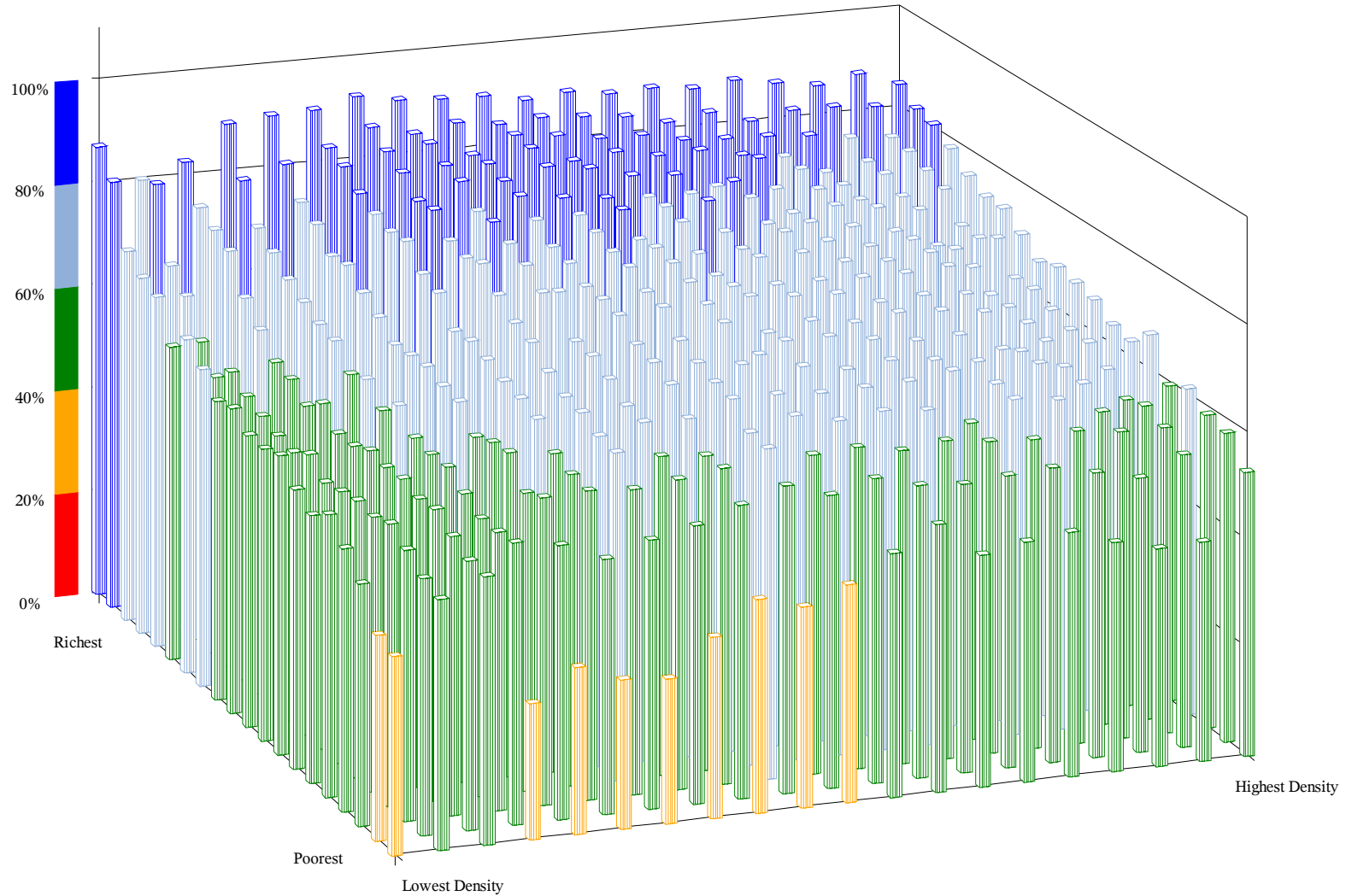


**Figure 58**  
**Tract Subscribership Ratios by Technology and Household Density as of June 30, 2025**  
 (Residential fixed connections at least 100 Mbps downstream and 20 Mbps upstream)



Note: Other is summarized with Copper Wire for confidentiality reasons. This chart shows subscribership ratios by technology and household density. Tracts were grouped into 100 density percentiles based on households per square mile, calculated as the ratio of estimated tract households to tract land area from the Census Bureau. For each percentile, the height of the bar represents the household-weighted average ratio of residential fixed connections at least 100 Mbps downstream and 20 Mbps upstream to households across tracts in the percentile. Sources: FCC Form 477; 2020-2024 ACS 5-year estimates; and Census 2010.

**Figure 59**  
**Tract Subscribership Ratios by Income and Household Density as of June 30, 2025**  
 (Residential fixed connections at least 100 Mbps downstream and 20 Mbps upstream by Tract)



This chart shows subscriber ratios by household density and income quantiles. Tracts were grouped into 400 density/income quantiles based on households per square mile, calculated as the ratio of estimated tract households to tract land area, and median household income. For each quantile, the height of the grid represents the household-weighted average ratio of residential fixed connections at least 100 Mbps downstream and 20 Mbps upstream to households across tracts in the decile. Sources: FCC Form 477; 2020-2024 ACS 5-year estimates; and Census 2010.

## TECHNICAL NOTES

### General

The information presented in this report is based on data from FCC Form 477 and the Broadband Data Collection (BDC). Through these data collections, facilities-based broadband providers submit information to the FCC about where they offer and have subscribers to Internet access services over 200 kilobits per second (kbps) in at least one direction. In June 2013, the Commission adopted several changes to FCC Form 477.<sup>1</sup> Detailed information about those changes and about the FCC Form 477 reporting requirements in general is available at [www.fcc.gov/form477](http://www.fcc.gov/form477).

FCC Form 477 collects information about *Internet access connections in service* to end-user locations that are advertised to deliver information to and/or from the end user – that is, in at least one direction – at transfer rates (speeds) above 200 kilobits per second (kbps). Information is collected about the number of connections by the advertised speeds associated with each service to which end users have subscribed in the relevant geographic area: census tracts for fixed and states for mobile. Providers report connections by the advertised upload and download speeds, and the technology employed by the part of the connection that terminates at the end-user location.

Through the BDC, the FCC collects information about the *availability* of Internet access services. In March 2020, Congress passed the Broadband Data Act which required the Commission to collect broadband availability data at a more granular level than what was historically reported through FCC Form 477.<sup>2</sup> As a result, starting in June 2022, broadband availability data have been collected through the BDC while subscription data continues to be collected through FCC Form 477. To ensure consistency across the two data collections, several minor changes were made to the FCC Form 477 reporting requirements beginning with filings as of June 30, 2022. Complete reporting requirements for both, the BDC and FCC Form 477, can be found here: [www.fcc.gov/BroadbandData/filers](http://www.fcc.gov/BroadbandData/filers). The inaugural BDC filing window for data as of June 30, 2022 was closed on September 1, 2022.

“End users” are residential, business, institutional, or government entities who use services for their own purposes and who do not resell such services to other entities. *Facilities-based providers* report information about connections they provide directly to their own end-user customers and also connections that they provide to Internet Service Providers for resale to end users. For the purposes of these collections, the facilities-based provider of a connection is the entity that owns the portion of the physical facility that terminates at the end-user location, obtains an unbundled network element (UNE), special access line, or other leased facility that terminates at the end-user location and provisions/equips it as a connection that transfers information at rates over 200 kbps in at least one direction, or provisions/equips a wireless channel that transfers information at rates over 200 kbps in at least one direction to the end-user location over licensed spectrum or over spectrum that the provider uses on an unlicensed basis.

Beginning with data as of June 30, 2022, the ten mutually exclusive *technology categories* are: copper wire; coaxial cable; optical carrier; geostationary satellite; non-geostationary satellite; unlicensed terrestrial fixed wireless; licensed terrestrial fixed wireless; licensed-by-rule terrestrial fixed wireless; mobile wireless; and other (which is included to capture deployment of additional technologies over

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<sup>1</sup> *Modernizing the FCC Form 477 Data Program*, WC Docket No. 11-10, Report and Order, 28 FCC Rcd 9887 (2013). See also *High-Speed Services for Internet Access: Status as of December 31, 2014* (March 2016) at 1-2, available at <https://www.fcc.gov/reports-research/reports/internet-access-services-reports/internet-access-services-reports>.

<sup>2</sup> Broadband Deployment Accuracy and Technological Availability Act, Pub. L. No. 116-130, 134 Stat. 228 (2020) (codified at 47 U.S.C. §§ 641-646) (Broadband DATA Act or Act).

time). Connections deployed over hybrid fiber-coax (HFC) architecture are reported in the coaxial cable category. Wireless ISPs (WISPs) report in the fixed wireless category if providing service to dispersed, fixed end-user locations and report in the mobile wireless category if providing a commercial service that can be received at any location within a service footprint. Wireless local area networks (such as Wi-Fi hotspots) that only enable local distribution and sharing of a premises connection are not included, although the shared premises connection is included. For confidentiality reasons and for ease of reporting, the report aggregates several of these categories. Geostationary Satellite and Non-Geostationary Satellite are reported as a single category: ‘Satellite’; Licensed-by-Rule Terrestrial Fixed Wireless is aggregated with Licensed Fixed Wireless; and Other is reported with Copper Wireline.

Numbers of connections presented in this report are not adjusted for the number of persons at a single end-user location who have access to, or who use, the Internet access services delivered over the connection to that location.

### **Census tracts**

Since the collection of data as of December 31, 2008, facilities-based providers of reportable fixed connections have been reporting connection counts at the census tract level of detail. Facilities-based mobile wireless providers report connection counts by state rather than census tract.

The census tract-level data summarized in this report were collected for tracts in the 2020 decennial census. For the purposes of this report, there are 85,160 census tracts because we exclude census tracts delineated specifically to cover large bodies of water.

### **Ratios of residential fixed connections to households that exceed 100%**

We estimate the share of households with fixed connections in individual census tracts by taking the ratio of the reported number of residential fixed connections to the estimated number of households. We continue to find “outlier” estimates at or above 100% and to find that the number of outliers is substantially reduced when estimates are made for individual counties rather than for individual census tracts.

Possible explanations of ratios at or above 100% include: (1) geocoding misallocations of service locations to census tracts; (2) proper allocation of connections to the county level by some filers, but improper allocation of all connections to a single tract in the county; (3) possible overestimation of residential connections in service plans for which the customer base is primarily residential; and (4) connections at seasonally or occasionally occupied housing units, such as vacation homes, while the household is counted elsewhere. The numbers of households in census tracts that were used to generate the estimated ratios are themselves estimates by the United States Census Bureau, which could have an independent effect.

### **Maps showing residential subscribership rates by census tract**

The two maps based on connections over 200 kbps in at least one direction per 1,000 households (that is, estimated household subscribership rates) exclude all connections identified as business connections and necessarily exclude residential mobile wireless connections (which are reported for the state but not for individual census tracts).

## GLOSSARY

<b>Term</b>	<b>Definition</b>
aDSL	Asymmetric Digital Subscriber Line: A digital local loop typically using copper facilities and providing greater bandwidth in one direction than the other.
BSL	Broadband Serviceable Location: A business or residential location in the United States at which mass-market fixed broadband Internet access service is, or can be, installed.
Coaxial cable	A fixed wireline service which offers customers access to the Internet using coaxial cable or hybrid fiber-coaxial.
Copper wire	A fixed wireline service using copper wire (e.g., Asymmetric or Symmetric DSL, ethernet over copper, T-1, etc.)
Fabric	Broadband Serviceable Location Fabric: A dataset of all locations in the United States and its Territories where fixed broadband internet access service is or could be installed
Downstream speed	Speed of transmission from the Internet to the end user.
End users	Residential, business, institutional, or government entities who use services for their own purposes and who do not resell such services to other entities.
Facilities-based provider	Entity that owns the portion of the physical facility that terminates at the end-user location, obtains an unbundled network element (UNE), special access line, or other leased facility that terminates at the end-user location and provisions/equips it as a connection that transfers information at rates over 200 kbps in at least one direction, or provisions/equips a wireless channel that transfers information at rates over 200 kbps in at least one direction to the end-user location over licensed spectrum or over spectrum that the provider uses on an unlicensed basis.
Fixed technologies	All technologies other than terrestrial mobile wireless.
Fixed wireless	A radio communication service between specified fixed points.
Geostationary satellite	Fixed non-terrestrial wireless service using satellites in geostationary orbit.
Internet access service	Service that provides end users access to the Internet.
ISPs	Internet Service Providers: Companies or organizations that provide Internet access service (see above).
Licensed fixed wireless	Fixed terrestrial wireless service using entirely licensed spectrum (including priority access licenses in the 3.5 GHz band) or a hybrid of licensed, unlicensed, and licensed-by-rule spectrum connections to make last-mile connections to fixed locations.
Licensed-by-rule fixed wireless	Fixed terrestrial wireless services using entirely licensed-by-rule spectrum or a hybrid of licensed-by-rule and unlicensed spectrum to make last-mile connections to fixed locations.
Mobile wireless service	A radio communication service between mobile and fixed stations, or between mobile stations.

Mobile wireless provider	Provider of mobile wireless service (see above).
Non-geostationary satellite	Fixed non-terrestrial wireless service using satellites in non-geostationary orbit (e.g., Low Earth Orbit or Medium Earth Orbit)
Optical carrier	Fixed wireline service using fiber to the home or business end user, but does not include “fiber to the curb”.
Other wireline	All copper-wire based technologies other than DSL technologies; Ethernet over copper and T-1 are examples.
Power line	Internet access service delivered over electric power transmission lines.
Satellite communications	A telecommunications service provided via one or more satellite relays and their associated uplinks and downlinks.
sDSL	Symmetric Digital Subscriber Line: DSL technology that provides equal bandwidth for both uploads and downloads.
Speed tiers	Sub-groupings defined by ranges of upstream speeds and downstream speeds.
Units	The number of residential housing units or business establishments located within a BSL.
Unlicensed fixed wireless	Fixed terrestrial wireless service using entirely unlicensed spectrum, including service provided over Wi-Fi as a fixed solution, to make last-mile connections to fixed locations.
Upstream speed	Speed of transmission from the end user to the Internet.
Wi-Fi hotspot	Wireless Fidelity: Generic term referring to any type of IEEE 802.11 wireless network. A hotspot is a small geographic area in which users can gain access to a Wi-Fi network which in turn connects to the Internet.
Wireless service	Telephone, Internet, data, and other services provided to customers through the transmission of signals over networks of radio towers.
Wireless service provider	Provider of wireless service (see above).
WISP	Wireless ISP: A company that provides end users with wireless access to the Internet, most commonly by using radio spectrum designated for unlicensed use.