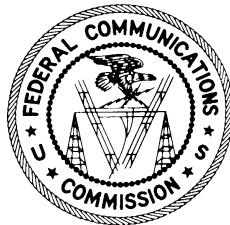


Internet Access Services: Status as of June 30, 2011

Industry Analysis and Technology Division
Wireline Competition Bureau
June 2012



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Internet Access Services: Status as of June 30, 2011

Introduction. This report summarizes information about Internet access connections over 200 kilobits per second (kbps) in at least one direction in service in the United States on June 30, 2011, as collected by FCC Form 477. Form 477 gathers standardized information about subscribership to Internet access services in the fifty states, District of Columbia, and inhabited insular areas (American Samoa, Guam, Northern Mariana Islands, Puerto Rico, and U.S. Virgin Islands). The information is reported by telephone companies, cable system operators, terrestrial wireless service providers, satellite service providers, and other facilities-based providers of advanced telecommunications capability.¹

Notable developments between June 2010 and June 2011 include:

- Internet connections overall are growing. The number of connections over 200 kbps in at least one direction increased by 31% year-over-year to 206 million.
- Growth is particularly high in mobile Internet subscriptions, but fixed-location connections also continue to increase. The number of mobile subscriptions grew to nearly 120 million – up 59% from June 2010. The number of fixed-location connections increased by 6% year-over-year, to nearly 87 million.
- Both fixed and mobile services are shifting to higher speeds. The share of fixed connections with speeds at or above the availability benchmark adopted in the *Sixth Broadband Deployment Report* increased from 51% to 56% of total fixed connections. Among mobile wireless subscriptions, the share increased from 6% to 14%.

The report reflects the Commission’s efforts to improve the way it collects, uses, and disseminates data by focusing in detail on reported connection speeds. Before presenting that information, we note two important points about the Form 477 data.

- First, the data track *subscribership*, or *adoption*, of services of different speeds; they do not directly measure the *availability* of services of different speeds. That is, if service connections of different speeds are *available* to a particular consumer for purchase – from one or more suppliers – then only the purchased connection is counted by Form 477.
- Second, the reported connection speed is typically based on the advertised speed of the purchased service, such as the advertised “up to” speed of a wired service or the advertised range of “typical speeds” of a mobile wireless service. It is possible that the purchased service will not operate at its advertised speed at all times.²

¹ See the Technical Notes and the Glossary that appear at the end of this report for more-detailed information about the Form 477 data collection and the meaning of terms used in this report.

² The Commission has worked in partnership with a third-party measurement company, SamKnows, to test actual consumer broadband speeds. See, e.g., Federal Communications Commission, Office of Engineering and Technology and Consumer and Governmental Affairs Bureau, *Measuring Broadband America: A Report on Consumer Wireline Broadband Performance in the U.S.* (August 2011), available at www.fcc.gov/measuring-broadband-america.

This is the sixth report to include details about subscribership differences among census tracts and counties, as well as subscribership differences among the states.³ And we continue to illustrate correlations of subscribership and demographic measures.

Connection speeds. The Form 477 program categorizes reportable connections into 72 speed tiers defined by eight ranges of downstream and nine ranges of upstream speed. In this overview discussion, we organize the extensive information collected for June 2011 into three groups of downstream speeds and three groups of upstream speeds. For the breakpoints between these groups, we use the Form 477-defined breakpoints that the Commission discussed as potential proxies for the broadband availability benchmark adopted in the *Sixth Broadband Deployment Report*.⁴ These Form 477-defined breakpoints are 3 mbps and 6 mbps for downstream speeds and 768 kbps and 1.5 mbps for upstream speeds.⁵

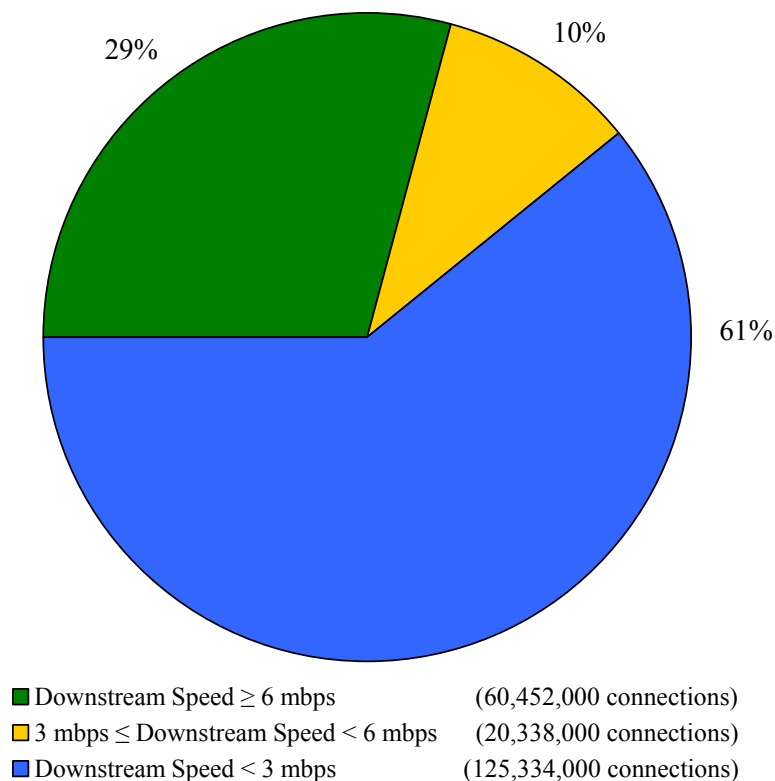
³ The Form 477 program began collecting state-level data in 2000. Census tract-level data were first collected in December 2008. For an overview of program history, see *High-Speed Services for Internet Access: Status as of December 31, 2008* (February 2010) (*December 2008 High-Speed Report*) at pp. 1-4, available at www.fcc.gov/wcb/iatd/comp.html. Readers who are interested in historical trends in the Form 477 data should note the changes in reporting requirements that were effective in 2008 and earlier, in 2005.

⁴ The Commission benchmarked broadband as a transmission service that enables an end user actually to download Internet content at 4 megabits per second (mbps) and to upload Internet content at 1 mbps over the service provider's network. See *Inquiry Concerning the Deployment of Advanced Telecommunications Capability to All Americans in a Reasonable and Timely Fashion, and Possible Steps to Accelerate Such Deployment Pursuant to Section 706 of the Telecommunications Act of 1996, Amended by the Broadband Data Improvement Act*, GN Docket Nos. 09-137, 09-51, Report, 25 FCC Rcd 95560, 9563, para. 11 (2010) (*Sixth Broadband Deployment Report*).

⁵ See *Sixth Broadband Deployment Report*, 25 FCC Rcd at 9568, para. 20. As explained there, the Commission decided to evaluate the evidence of broadband availability using the Form 477-defined speed breakpoints of 3 mbps downstream and 768 kbps upstream.

Figure 1(a) illustrates how the connections reported for June 2011 were distributed across the three ranges of downstream speed defined by breakpoints at 3 mbps and at 6 mbps.

Figure 1(a)
Distribution of Reportable Connections (206,124,000) by
Downstream Speed as of June 30, 2011



- In June 2011, 61% of **total** reportable connections (or 125.3 million connections) were slower than 3 mbps in the downstream direction, 10% (or 20.3 million connections) were at least 3 mbps in the downstream direction but slower than 6 mbps, and 29% (or 60.5 million connections) were at least 6 mbps in the downstream direction.⁶
 - For **fixed** connections, 27% of reportable connections (or 23.2 million connections) were slower than 3 mbps in the downstream direction, 16% (or 13.8 million connections) were at least 3 mbps in the downstream direction but slower than 6 mbps, and 57% (or 49.6 million connections) were at least 6 mbps in the downstream direction.⁷
 - For **mobile** connections, 85% of reportable connections (or 102.1 million connections) were slower than 3 mbps in the downstream direction, about 5% (or 6.6 million

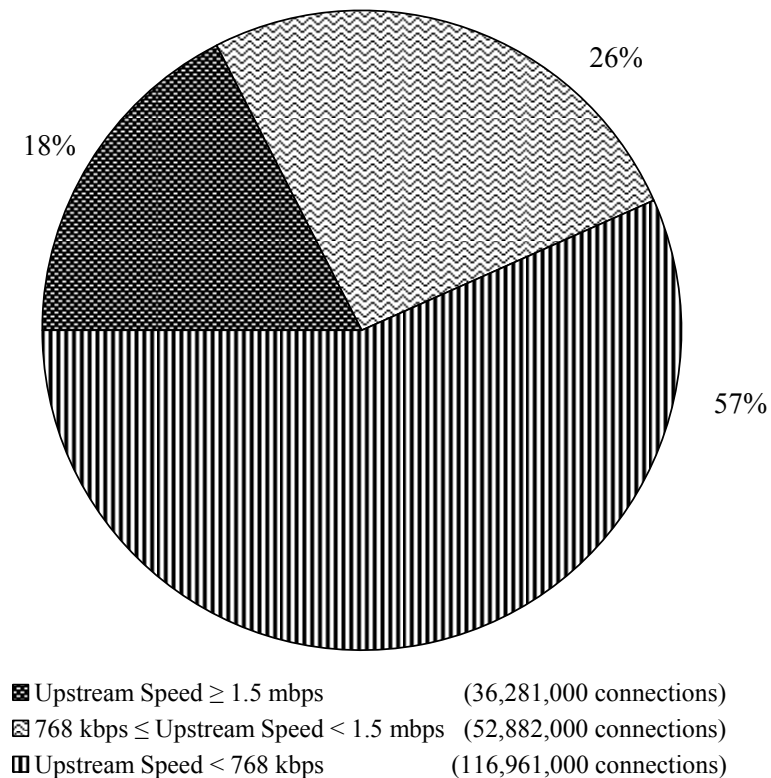
⁶ Our narrative discussion of the speeds of all reportable connections (including both fixed-location connections and mobile wireless subscriptions) is summarized more concisely in Chart 1, at p. 17.

⁷ See Chart 2, at p. 18.

connections) were at least 3 mbps in the downstream direction but slower than 6 mbps, and 9% (or 10.9 million connections) were at least 6 mbps in the downstream direction.⁸

Figure 1(b) illustrates how the connections reported for June 2011 were distributed across the three ranges of upstream speed defined by breakpoints at 768 kbps and at 1.5 mbps.

Figure 1(b)
Distribution of Reportable Connections (206,124,000) by
Upstream Speed as of June 30, 2011



- In June 2011, 57% of **total** reportable connections (or 117.0 million connections) were slower than 768 kbps in the upstream direction, 26% (or 52.9 million connections) were at least 768 kbps in the upstream direction but slower than 1.5 mbps, and 18% (or 36.3 million connections) were at least 1.5 mbps in the upstream direction.
 - For **fixed** connections, 39% of reportable connections (or 33.7 million connections) were slower than 768 kbps in the upstream direction, 26% (or 22.3 million connections) were at least 768 kbps in the upstream direction but slower than 1.5 mbps, and 35% (or 30.6 million connections) were at least 1.5 mbps in the upstream direction.⁹

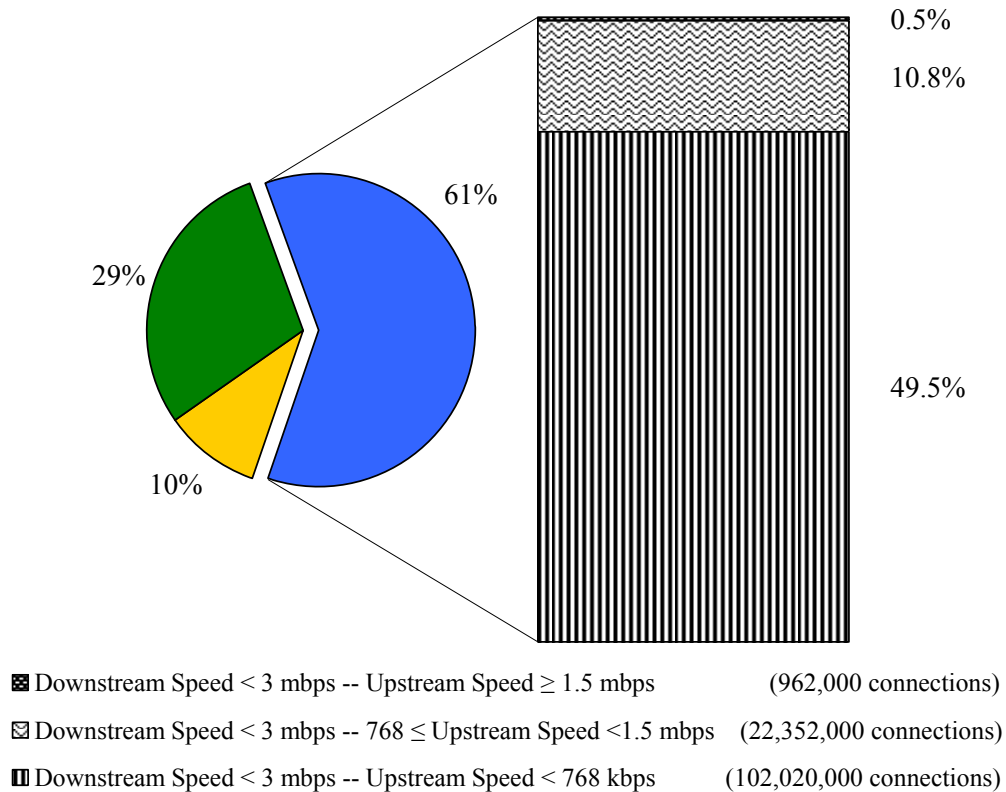
⁸ See Chart 5, at p. 21.

⁹ See Chart 2, at p. 18.

- For *mobile* connections, 70% of reportable connections (or 83.2 million connections) were slower than 768 kbps in the upstream direction, about 26% (or 30.6 million connections) were at least 768 kbps in the upstream direction but slower than 1.5 mbps, and 5% (or 5.7 million connections) were at least 1.5 mbps in the upstream direction.¹⁰

In Figures 2(a) – 2(c), we sequentially review the upstream speeds of the total (including both fixed and mobile) connections that fall into each of the three downstream-speed groupings that we illustrated in Figure 1(a).

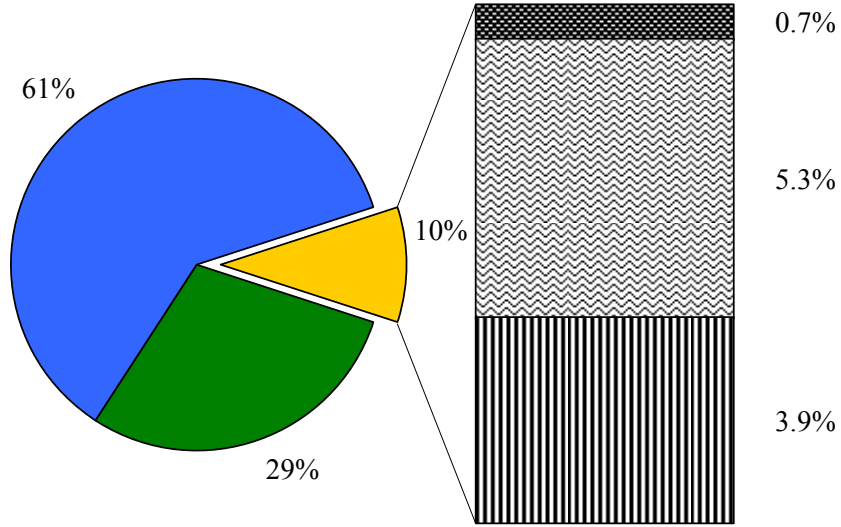
Figure 2(a)
Distribution by Upstream Speed of Reportable Connections (125,334,000) with Downstream Speed Below 3 mbps as of June 30, 2011



- In June 2011, about 49% of reportable connections (or 102.0 million connections) were slower than 3 mbps in the downstream direction and also slower than 768 kbps in the upstream direction.
- Additionally, about 11% of reportable connections (or 23.3 million connections) were fast enough in the upstream direction (at least 768 kbps) but too slow in the downstream direction (less than 3 mbps) to meet the broadband availability benchmark adopted in the *Sixth Broadband Deployment Report*.

¹⁰ See Chart 5, at p. 21.

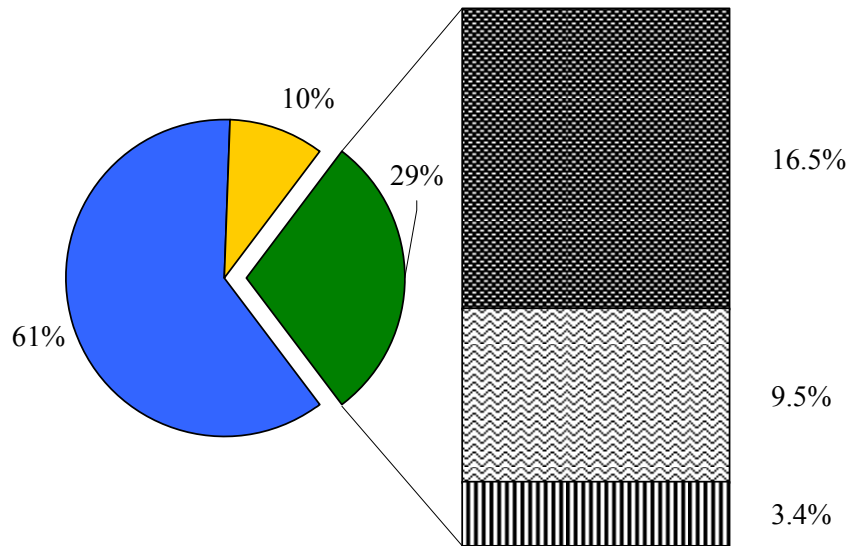
Figure 2(b)
Distribution by Upstream Speed of Reportable Connections (20,338,000) with
Downstream Speed at Least 3 mbps but Below 6 mbps as of June 30, 2011



- 3 mbps ≤ Downstream Speed < 6 mbps -- Upstream Speed ≥ 1.5 mbps (1,404,000 connections)
- ▨ 3 mbps ≤ Downstream Speed < 6 mbps -- 768 ≤ Upstream Speed < 1.5 mbps (10,997,000 connections)
- ▤ 3 mbps ≤ Downstream Speed < 6 mbps -- Upstream Speed < 768 kbps (7,937,000 connections)

- In June 2011, about 4% of reportable connections (or 7.9 million connections) were at least 3 mbps but below 6 mbps in the downstream direction and were slower than 768 kbps in the upstream direction. These purchased connections are too slow in the upstream direction to meet the broadband availability benchmark adopted in the *Sixth Broadband Deployment Report*.

Figure 2(c)
Distribution by Upstream Speed of Reportable Connections (60,452,000) with
Downstream Speed at Least 6 mbps as of June 30, 2011



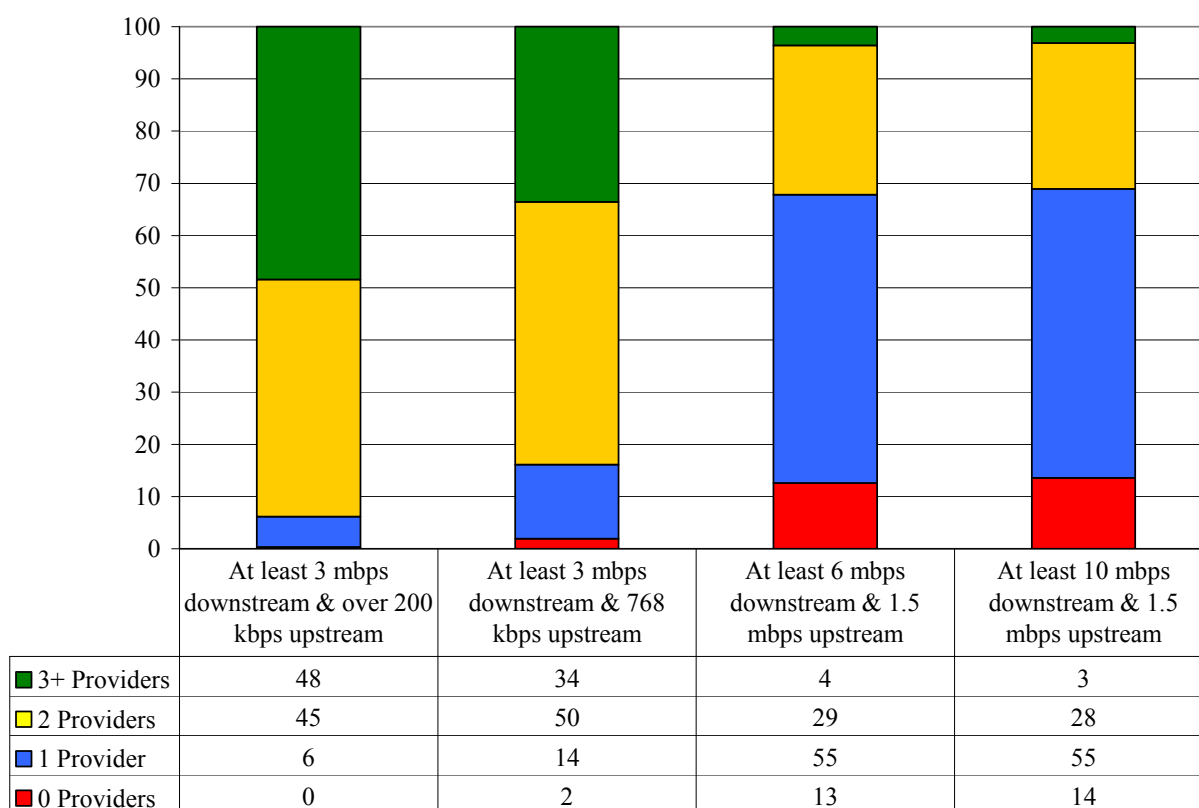
- Downstream Speed \geq 6 mbps -- Upstream Speed \geq 1.5 mbps (33,915,000 connections)
- ▨ Downstream Speed \geq 6 mbps -- 768 \leq Upstream Speed < 1.5 mbps (19,533,000 connections)
- ▩ Downstream Speed \geq 6 mbps -- Upstream Speed < 768 kbps (7,004,000 connections)

- In June 2011, about 3% of reportable connections (or 7.0 million connections) were at least 6 mbps in the downstream direction and were slower than 768 kbps in the upstream direction. These purchased connections also are too slow in the upstream direction to meet the broadband availability benchmark adopted in the *Sixth Broadband Deployment Report*.
- In sum, 68% of reportable Internet access service connections (or 140.3 million connections) in June 2011 were too slow in both the downstream and upstream directions, or too slow in a single direction, to meet the broadband availability benchmark adopted in the *Sixth Broadband Deployment Report*.¹¹ About 49% of reportable connections (or 102.0 million connections) were too slow in both directions, about 11% (or 23.3 million connections) were too slow in the downstream direction only, and about 7% (or 14.9 million connections) were too slow in the upstream direction only.

¹¹ Of the 140.3 million connections that failed to meet the benchmark, 38.0 million were fixed connections and 102.3 million were mobile wireless subscriptions. Compare Tables 1 and 2, at p. 16.

Providers by census tract by connection speed. In earlier reports in which we summarized Form 477 data through June 2008, we included summary statistics for the percentage of 5-digit geographical ZIP Codes in which differing numbers of providers (zero providers, one provider, two providers, etc.) had customers for their reportable connections.¹² The ZIP Code-based data did not include information about the speeds of the connections that were purchased in particular ZIP Codes. However, the census tract-level information collected on Form 477 since December 2008 does include the speeds of purchased fixed-location connections.¹³ In Figure 3(a), we use that information to estimate the percentages of households located in census tracts where zero, one, two, or three or more providers reported residential fixed-location connections of several different speeds in June 2011.¹⁴

Figure 3(a)
Percentages of Households Located in Census Tracts Where Providers Report Residential Fixed-Location Connections of Various Speeds as of June 30, 2011



Figures may not sum to 100% due to rounding.

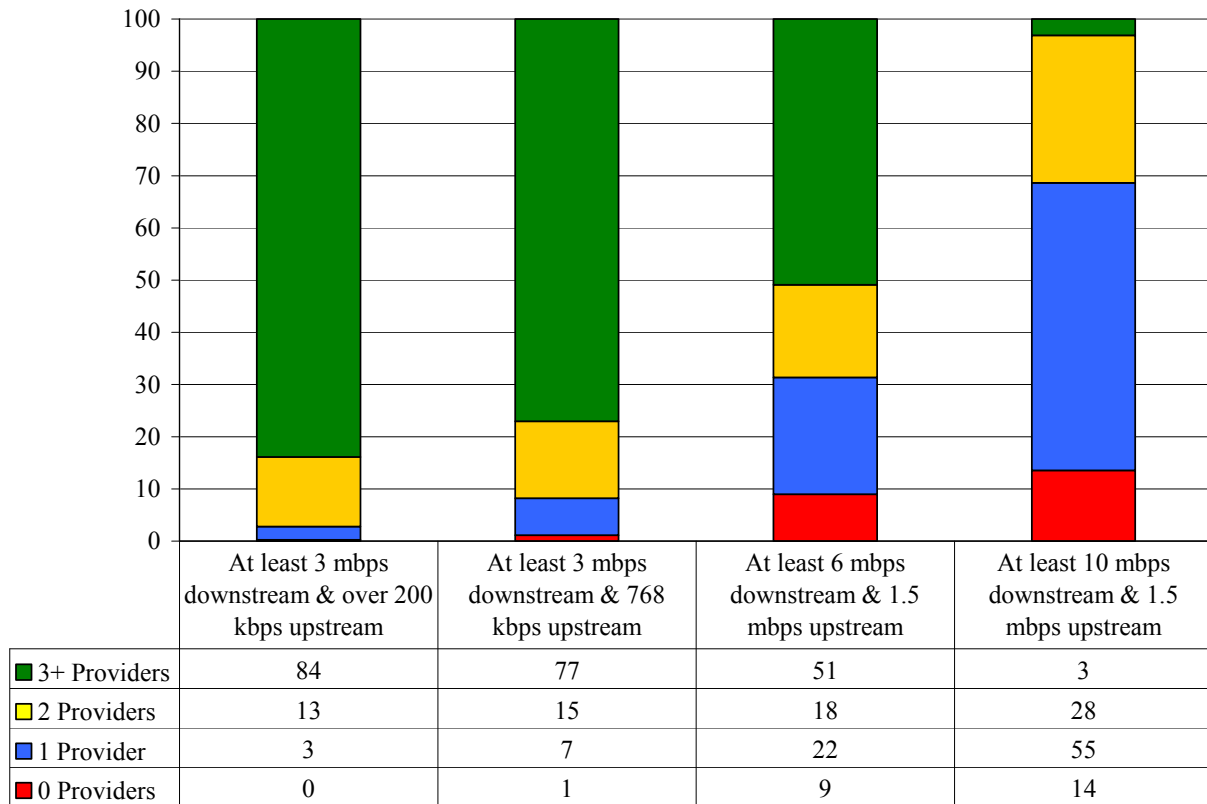
¹² For the most recent such report, see *High-Speed Services for Internet Access: Status as of June 30, 2008* (July 2009) (*June 2008 High-Speed Report*) at pp. 1-4, available at www.fcc.gov/wcb/iatd/comp.html.

¹³ Mobile wireless providers report the number of service subscriptions they have sold, and the speeds of those service subscriptions, at the state level only. For individual census tracts, they report the speeds of mobile wireless service subscriptions that they offer for sale – that is, the capability of the network that they operate in the census tract.

¹⁴ A provider who reports residential connections of a particular speed in a particular census tract may or may not offer service of that speed everywhere in the census tract.

In Figure 3(b), we estimate the percentages of households in census tracts where providers reported residential fixed-location connections of different speeds *or* operated a mobile wireless network capable of sending or receiving data at the indicated speeds.

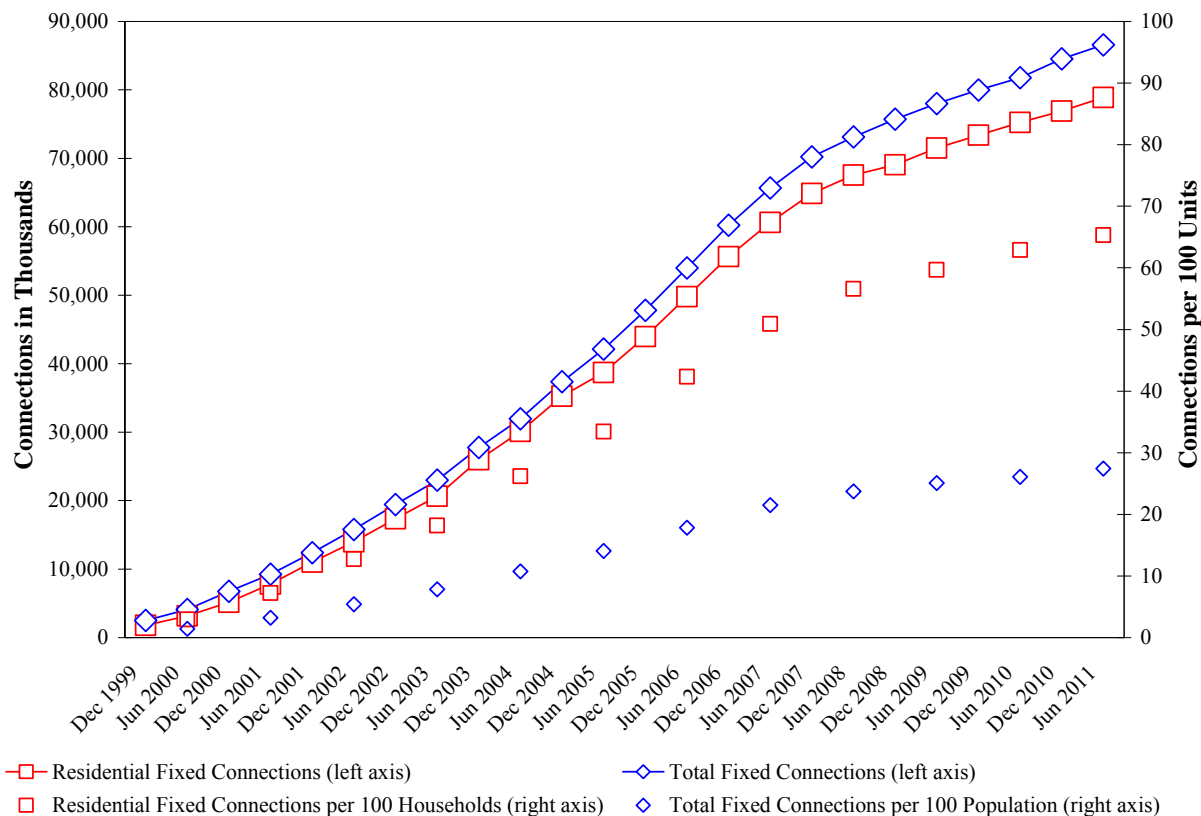
Figure 3(b)
Percentages of Households Located in Census Tracts Where Providers Report Residential Fixed-Location Connections of Various Speeds or Operate a Mobile Wireless Network Capable of Delivering Service of Various Speeds as of June 30, 2011



Figures may not sum to 100% due to rounding.

Internet access adoption. The Commission has systematically collected, compiled, and published data about the adoption of fixed-location Internet access connections faster than 200 kbps in at least one direction for more than a decade. Figure 4 illustrates the adoption of fixed-location Internet access connections (that is, all reportable connections except mobile wireless connections) since 1999.¹⁵

Figure 4
Fixed-Location Connections 1999-2011



- Between June 2001 and June 2011, total (business and residential) reportable fixed-location connections grew from 9 million connections to nearly 87 million connections – at a compound annual growth rate of 25% per year.
- Over the same ten-year period, residential fixed-location connections grew from nearly 8 million connections to 79 million connections – at a compound annual growth rate of 26% per year.
- Between June 2001 and June 2011, household adoption – which we track in Figure 4 by comparing the number of residential fixed-location connections to the number of households – increased from 7 connections per 100 households to 65 connections per 100 households.^{16,17}

¹⁵ Historical data not in this report may be found in *June 2008 High-Speed Report* at Tables 1 and 3, available in Excel format at www.fcc.gov/wcb/iatd/comp.html.

¹⁶ We also show total (including business as well as residential) fixed-location connections per 100 *population* in Figure 4, which is a statistic routinely reported by the Organization for Economic Cooperation and Development (OECD). This ratio incorporates connections to business locations into a comparison to persons. A more accurately measured indicator of this type would include only connections to residential locations, but OECD does not have

Other report highlights.

Residential subscribership

- Residential fixed-location Internet access connections over 200 kbps in at least one direction increased by 5% between June 2010 and June 2011, to 79 million. See Table 3.
- Reported residential mobile wireless service subscribers with mobile devices and data plans for full Internet access increased by 62%, to nearly 93 million, between June 2010 and June 2011. See Table 3.
- The reported data show a 25% increase between June 2010 and June 2011 in the number of residential fixed-location connections that are at least 6 mbps downstream and 1.5 mbps upstream (from 22.3 million to 27.9 million) and a 24% increase in the number of connections that are at least 10 mbps downstream and 1.5 mbps upstream (from 21.8 million to 27.1 million). See Chart 12.

Household adoption by speed tier

- As a national average in June 2011, there were 38 residential fixed-location connections per 100 households for connections with speeds that were reported to be at least 3 mbps downstream and 768 kbps upstream. That was slightly more than half as large as the ratio of 67 residential fixed-location connections of any reportable speed per 100 households.¹⁸ See Tables 15 and 16.

comprehensive, consistent information about residential connections in the member countries. (We note that the ratio of accurately measured *residential* fixed-location connections to population has a maximum value for any given country and point in time – the value when *every* household is connected – if we assume that no household would have more than one fixed connection to its premises. For the United States in June 2011, for example, the maximum value would be 38 because there were about 120.8 million households in the United States and inhabited insular areas and a population of about 315.7 million.)

¹⁷ For consistency of presentation, we include only mid-year ratios in Figure 4. We calculated total fixed connections per 100 population using U.S. Census Bureau population estimates for the United States and Puerto Rico – which are as of July 1 each year – and Census 2000 population for the remaining inhabited insular areas. We calculated residential fixed connections per 100 households using U.S. household estimates from the Census Bureau’s Current Population Survey (CPS) for July of each year, Census 2010 households for Puerto Rico, and Census 2000 households for the remaining inhabited insular areas. (The CPS also estimates U.S. households for March and November of each year.)

¹⁸ Increases over time in the ratio of residential fixed-location connections to households indicate that increasing shares of households are connected at home. The ratio is somewhat different from the “take rate” of offered service because, as discussed in connection with Figure 3(a), some households are located in areas where apparently no fixed-location service is offered (as none is purchased).

Census tract and county shares of households with reportable connections

- We estimate the share of households with fixed-location Internet access connections over 200 kbps in at least one direction in individual census tracts and counties as of June 30, 2011. Our estimates continue to indicate that there are substantial areas of relatively low and relatively high household adoption around the national average. See Charts 15 and 16.
- For both census tracts and counties, we continue to find estimates above 100% for the share of households with reportable fixed-location Internet access connections. These results suggest that some filers are not accurately assigning customer connections to census tracts, and anecdotal evidence supports that conclusion.¹⁹

Household adoption rates and subscribership demographics

- The report includes charts that illustrate correlations between household subscribership, or *adoption*, rates and demographic measures. We update charts based on income, household density, education, age, and race. The data indicate that some demographic variables are correlated with the adoption of Internet access service. See Charts 17-29.

Maps of providers by census tract

- Maps depict the number of providers of reportable connections by census tract. These maps are similar to previously published maps of providers by ZIP Code, but differ in important respects. In particular, instead of a single map combining providers of connections over all technologies and to both residential and business end users, now separate maps depict: (1) providers of total (combined residential and business) reportable fixed-location connections, (2) providers of *residential* reportable fixed-location connections, (3) providers of *residential* fixed-location connections at least 3 mbps downstream and 768 kbps upstream, and (4) providers making reportable mobile wireless service *available*.²⁰

Remainder of the report. The remainder of the report consists of tables, charts, and maps that highlight different aspects of Internet access service subscriptions. This information is organized into four sections, as described below. As always, publicly accessible data that are too voluminous to include in this report are available online at www.fcc.gov/wcb/iatd/comp.html.

- Detailed Summary Statistics: The Nation. Tables 1-14 and Charts 1-14 focus in order on: number of connections, speed of connections, technology of connections, and number of providers.
- Detailed Summary Statistics: The States. Tables 15-24 present comparable information for the individual states and our estimates of the shares of households that are connected at different speeds.

¹⁹ For example, while contacting Form 477 filers with questions about reported data, FCC staff continue to find situations in which all connections reported for a county have been assigned to a single, anomalous census tract.

²⁰ As discussed in the Technical Notes, a mobile wireless provider should only report service availability in census tracts where the provider operates a network capable of sending or receiving data at speeds above 200 kbps.

- Detailed Summary Statistics: Counties and Census Tracts. Charts 15-16 and Tables 25-29 present information about differences among counties and census tracts. This section concludes with two maps that illustrate differences among census tracts in the estimated share of connected households and the four maps (discussed above) that illustrate providers by census tract.
- Detailed Correlation Results: Demographic Measures. Charts 17-29 present details of the correlations observed between the estimated share of connected households and demographic measures.

* * * *

We invite users of this information to suggest improvements in the data analysis by using the attached customer response form or sending comments to IATDreports@fcc.gov for subject: June 2011 Internet services data, and to participate in proceedings the Commission undertakes to improve the data collection.

Detailed Summary Statistics: The Nation

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Table 1
Connections over 200 kbps in at Least One Direction 2007-2011
(In thousands)

<i>Technology</i>	2007		2008		2009		2010		2011
	<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	100,986	121,222	132,814	102,239	119,433	136,293	157,017	182,065	206,124
Total Fixed	65,681	70,206	73,123	75,707	77,997	79,994	81,764	84,521	86,568
Mobile Wireless ¹	35,305	51,016	59,691	26,532	41,436	56,300	75,253	97,544	119,556

Table 2
Connections at Least 3 mbps Downstream and 768 kbps Upstream 2008-2011
(In thousands)

<i>Technology</i>	2008		2009		2010		2011
	<i>Dec</i>	<i>Jun</i>	<i>Dec</i>	<i>Jun</i>	<i>Dec</i>	<i>Jun</i>	<i>Jun</i>
Total	31,120	33,332	40,669	45,554	55,113	65,849	
Total Fixed	30,987	33,108	38,963	41,366	44,696	48,576	
Mobile Wireless ¹	133	224	1,706	4,188	10,416	17,272	

Table 3
Residential Connections over 200 kbps in at Least One Direction 2007-2011
(In thousands)

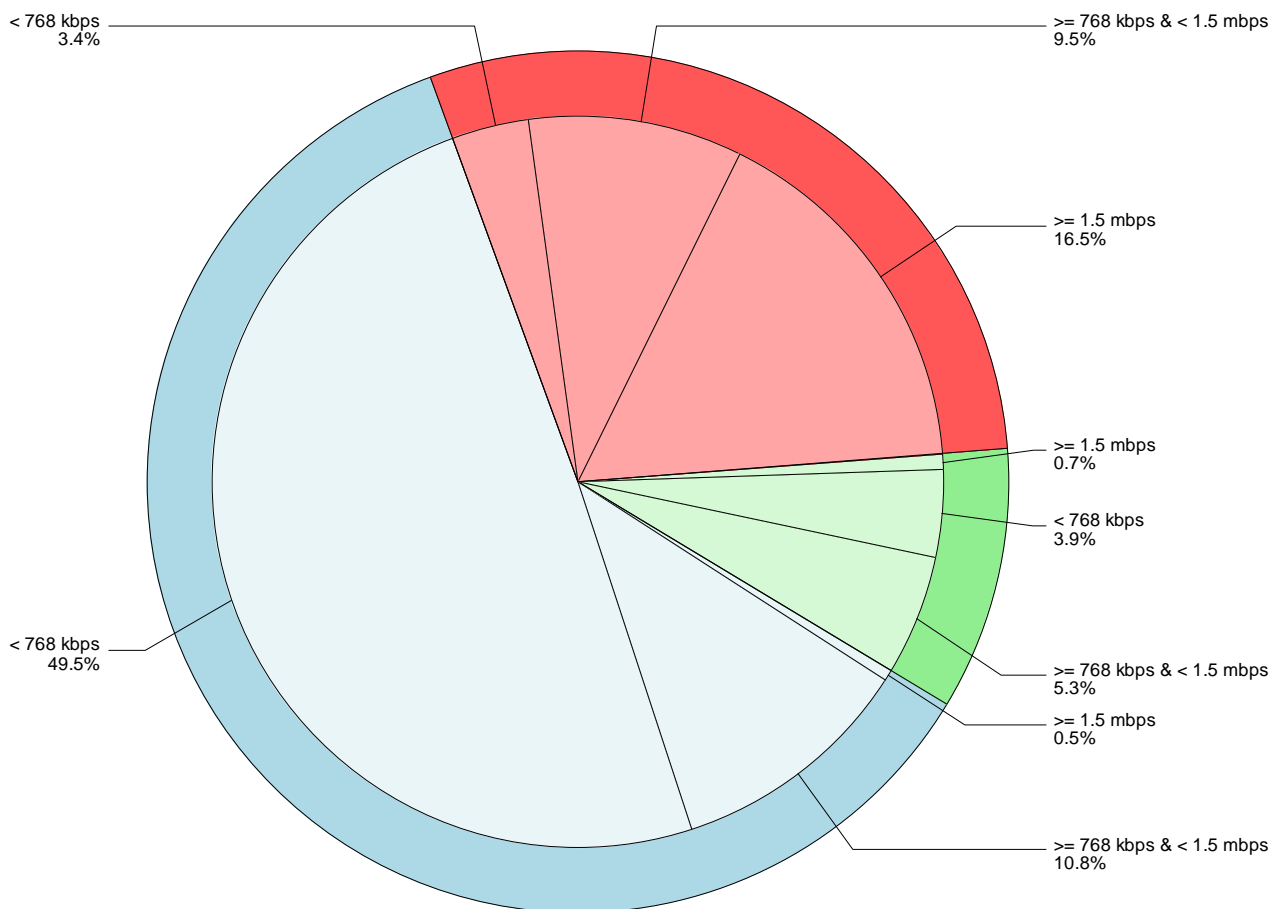
<i>Technology</i>	2007		2008		2009		2010		2011
	<i>Jun</i>	<i>Dec</i>	<i>Jun</i>	<i>Dec</i>	<i>Jun</i>	<i>Dec</i>	<i>Jun</i>	<i>Dec</i>	<i>Jun</i>
Total	66,173	73,984	79,090	88,190	103,300	117,088	132,567	149,441	171,767
Total Fixed	60,628	64,875	67,554	69,047	71,509	73,394	75,251	76,918	78,900
Mobile Wireless ¹	5,545	9,109	11,536	19,142	31,791	43,695	57,316	72,523	92,867

Table 4
Residential Connections at Least 3 mbps Downstream and 768 kbps Upstream 2008-2011
(In thousands)

<i>Technology</i>	2008		2009		2010		2011
	<i>Dec</i>	<i>Jun</i>	<i>Dec</i>	<i>Jun</i>	<i>Dec</i>	<i>Jun</i>	<i>Jun</i>
Total	29,127	31,356	38,426	42,245	47,634	52,693	
Total Fixed	29,013	31,161	36,844	39,039	41,772	45,263	
Mobile Wireless ¹	114	196	1,582	3,206	5,863	7,429	

¹ Reporting instructions for mobile wireless changed between the June 2008 and December 2008 data. See Technical Notes at the end of the report.
Note: Some historical data have been revised. Figures may not sum to totals due to rounding.
Source: FCC Form 477, Parts I and VI.

Chart 1
Distribution of Connections over 200 kbps in at Least One Direction
as of June 30, 2011



Downstream Speed ■ < 3 mbps; 60.8% ■ >= 3 mbps & < 6 mbps; 9.9% ■ >= 6 mbps; 29.3%

Note: Inner circle (light shading) represents upstream speeds.

Connections over 200 kbps in at Least One Direction (in thousands)

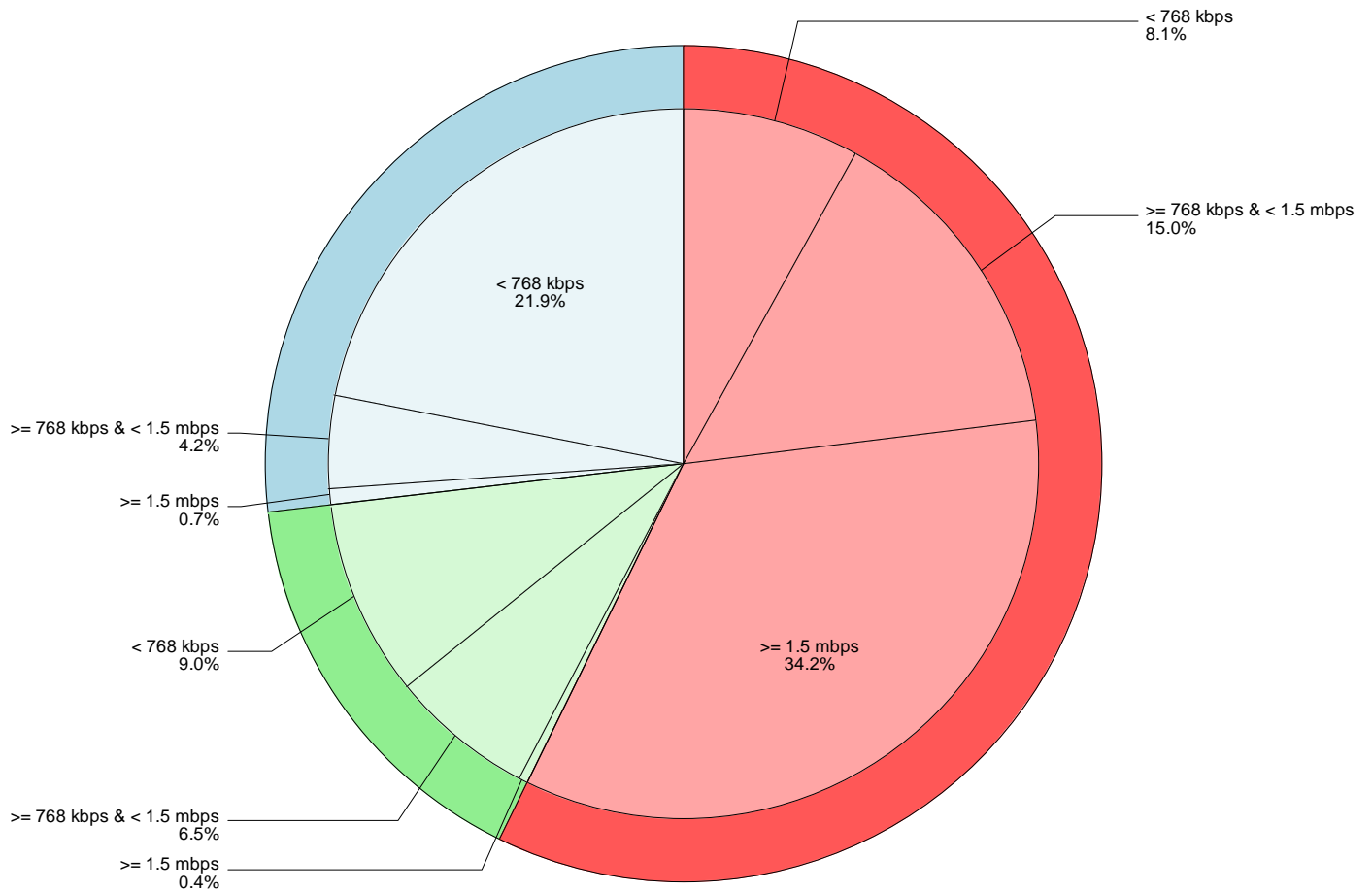
Upstream Speed	Downstream Speed			Total
	Less than 3 mbps	At least 3 mbps and less than 6 mbps	At least 6 mbps	
Less than 768 kbps	102,020	7,937	7,004	116,961
At least 768 kbps & Less than 1.5 mbps	22,352	10,997	19,533	52,882
At least 1.5 mbps	962	1,404	33,915	36,281
Total	125,334	20,338	60,452	206,124

Percentages

Less than 768 kbps	49.5	3.9	3.4	56.7
At least 768 kbps & Less than 1.5 mbps	10.8	5.3	9.5	25.7
At least 1.5 mbps	0.5	0.7	16.5	17.6
Total	60.8	9.9	29.3	100.0

Note: Figures may not sum to totals due to rounding.
 Source: FCC Form 477, Part I.

Chart 2
Distribution of Fixed Connections over 200 kbps in at Least One Direction
as of June 30, 2011



Downstream Speed ■ < 3 mbps; 26.8% ■ >= 3 mbps & < 6 mbps; 15.9% ■ >= 6 mbps; 57.2%

Note: Inner circle (light shading) represents upstream speeds.

Fixed Connections over 200 kbps in at Least One Direction (in thousands)

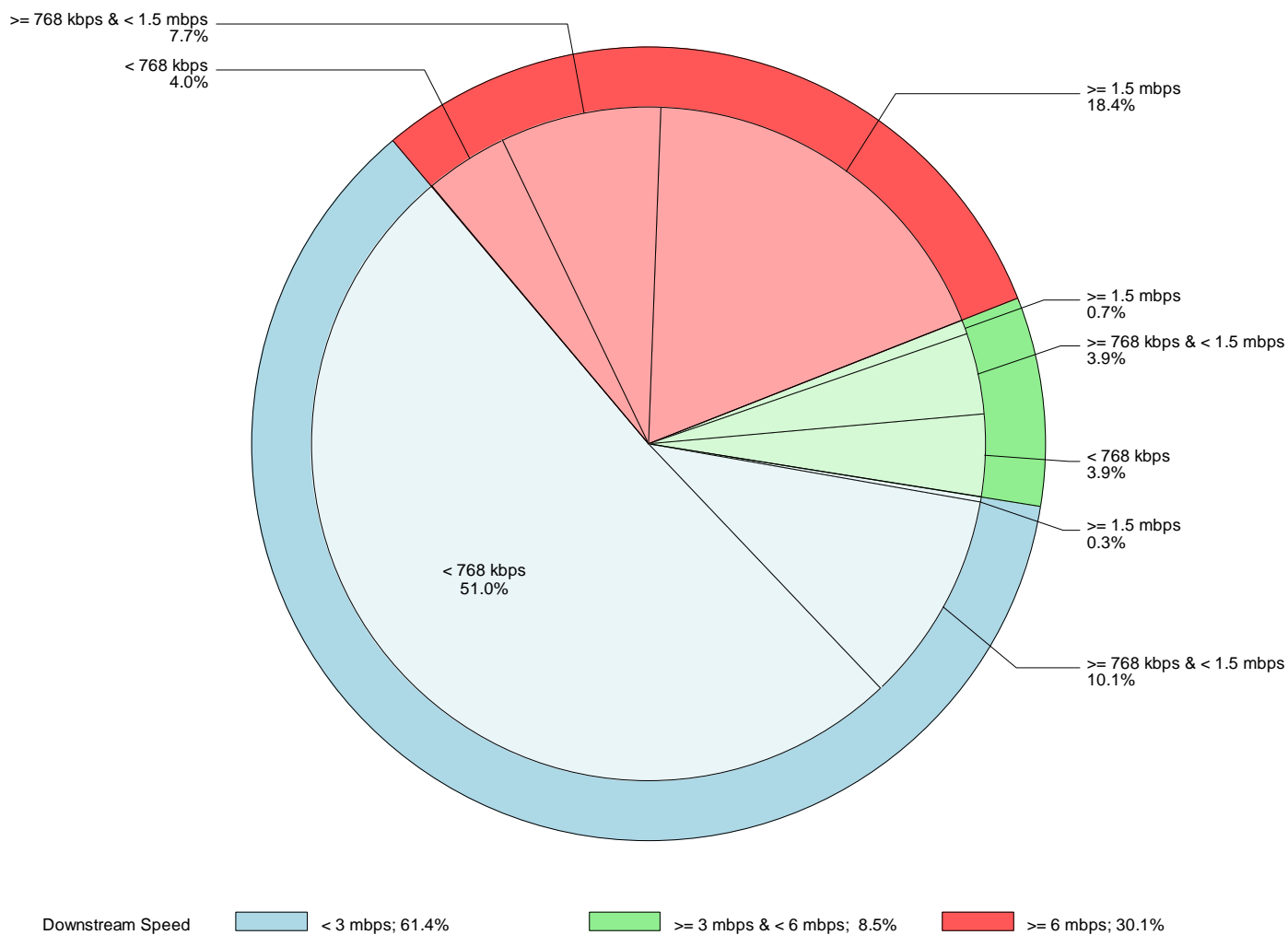
Upstream Speed	Downstream Speed			Total
	Less than 3 mbps	At least 3 mbps and less than 6 mbps	At least 6 mbps	
Less than 768 kbps	18,969	7,771	6,990	33,730
At least 768 kbps & Less than 1.5 mbps	3,667	5,652	12,955	22,273
At least 1.5 mbps	595	361	29,609	30,565
Total	23,231	13,784	49,554	86,568

Percentages

Less than 768 kbps	21.9	9.0	8.1	39.0
At least 768 kbps & Less than 1.5 mbps	4.2	6.5	15.0	25.7
At least 1.5 mbps	0.7	0.4	34.2	35.3
Total	26.8	15.9	57.2	100.0

Note: Figures may not sum to totals due to rounding.
Source: FCC Form 477, Part I.

Chart 3
Distribution of Residential Connections over 200 kbps in at Least One Direction
as of June 30, 2011



Note: Inner circle (light shading) represents upstream speeds.

Residential Connections over 200 kbps in at Least One Direction (in thousands)

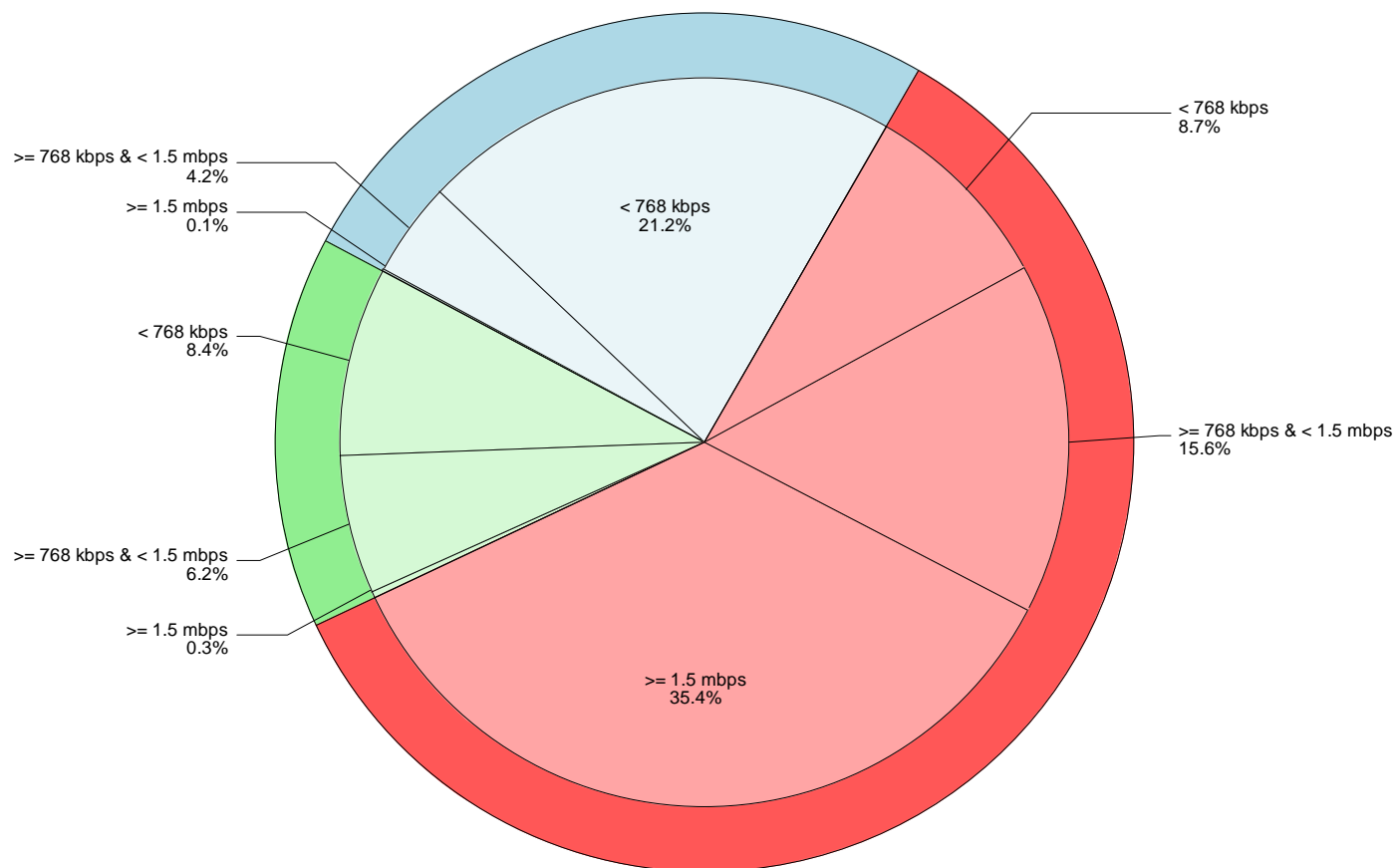
Upstream Speed	Downstream Speed			Total
	Less than 3 mbps	At least 3 mbps and less than 6 mbps	At least 6 mbps	
Less than 768 kbps	87,597	6,767	6,880	101,244
At least 768 kbps & Less than 1.5 mbps	17,396	6,666	13,252	37,313
At least 1.5 mbps	434	1,132	31,643	33,210
Total	105,427	14,565	51,775	171,767

Percentages

Less than 768 kbps	51.0	3.9	4.0	58.9
At least 768 kbps & Less than 1.5 mbps	10.1	3.9	7.7	21.7
At least 1.5 mbps	0.3	0.7	18.4	19.3
Total	61.4	8.5	30.1	100.0

Note: Figures may not sum to totals due to rounding.
 Source: FCC Form 477, Parts I and VI.

Chart 4
Distribution of Residential Fixed Connections over 200 kbps in at Least One Direction
as of June 30, 2011



Downstream Speed ■ < 3 mbps; 25.6% ■ >= 3 mbps & < 6 mbps; 14.8% ■ >= 6 mbps; 59.6%

Note: Inner circle (light shading) represents upstream speeds.

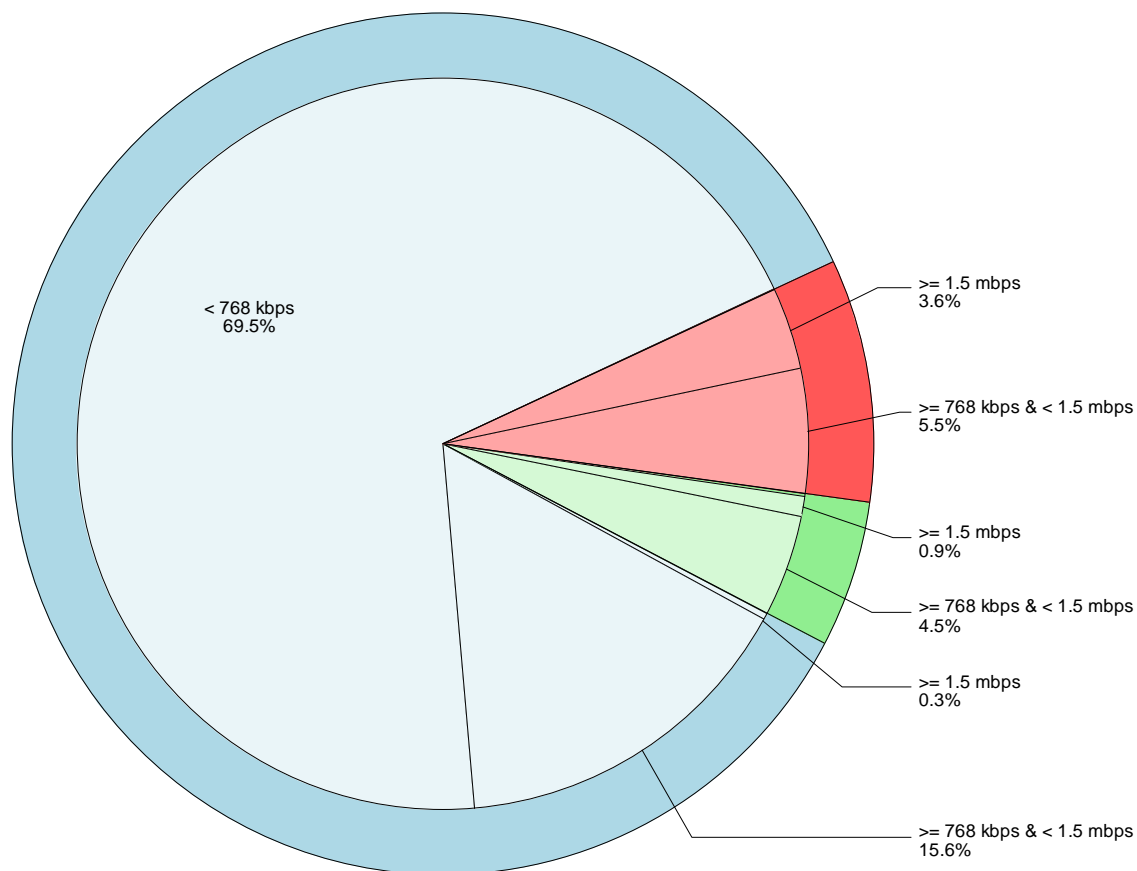
Residential Fixed Connections over 200 kbps in at Least One Direction (in thousands)

Upstream Speed	Downstream Speed			Total
	Less than 3 mbps	At least 3 mbps and less than 6 mbps	At least 6 mbps	
Less than 768 kbps	16,760	6,611	6,866	30,236
At least 768 kbps & Less than 1.5 mbps	3,316	4,861	12,296	20,473
At least 1.5 mbps	85	211	27,895	28,191
Total	20,160	11,683	47,057	78,900

Percentages				
Less than 768 kbps	21.2	8.4	8.7	38.3
At least 768 kbps & Less than 1.5 mbps	4.2	6.2	15.6	25.9
At least 1.5 mbps	0.1	0.3	35.4	35.7
Total	25.6	14.8	59.6	100.0

Note: Figures may not sum to totals due to rounding.
Source: FCC Form 477, Part VI.

Chart 5
Distribution of Mobile Wireless Connections over 200 kbps in at Least One Direction
as of June 30, 2011



Downstream Speed ■ < 3 mbps; 85.4% ■ >= 3 mbps & < 6 mbps; 5.5% ■ >= 6 mbps; 9.1%

Note: Inner circle (light shading) represents upstream speeds.

Mobile Wireless Connections over 200 kbps in at Least One Direction (in thousands)

Upstream Speed	Downstream Speed			Total
	Less than 3 mbps	At least 3 mbps and less than 6 mbps	At least 6 mbps	
Less than 768 kbps	83,051	166	15	83,231
At least 768 kbps & Less than 1.5 mbps	18,686	5,345	6,578	30,609
At least 1.5 mbps	366	1,043	4,306	5,715
Total	102,103	6,554	10,899	119,556

Percentages

Less than 768 kbps	69.5	0.1	0.0	69.6
At least 768 kbps & Less than 1.5 mbps	15.6	4.5	5.5	25.6
At least 1.5 mbps	0.3	0.9	3.6	4.8
Total	85.4	5.5	9.1	100.0

Note: Figures may not sum to totals due to rounding.
 Source: FCC Form 477, Part I.

Table 5
Connections and Percentage Residential by Speed Tier as of June 30, 2011
(In thousands)

<i>Upstream Speed</i>	<i>Customer Class</i>	<i>Downstream Speed</i>								<i>Total</i>
		<i>Greater than 200 kbps and less than 768 kbps</i>	<i>At least 768 kbps and less than 1.5 mbps</i>	<i>At least 1.5 mbps and less than 3 mbps</i>	<i>At least 3 mbps and less than 6 mbps</i>	<i>At least 6 mbps and 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</i>	
Less than or equal to 200 kbps	Total Connections	10,604	2,817	7,777	66	2	3	0	0	21,268
	% Residential	85	96	59	93	98	100	0	0	77
Greater than 200 kbps and less than 768 kbps	Total Connections	31,716	26,145	22,961	7,871	5,639	1,361	#	0	95,694
	% Residential	86	90	89	85	98	99	90	0	89
At least 768 and less than 1.5 mbps	Total Connections	#	9,753	*	10,997	10,693	8,834	6	*	52,882
	% Residential	93	86	71	61	43	98	90	0	71
At least 1.5 mbps and less than 3 mbps	Total Connections	*	*	955	1,203	3,395	20,859	211	*	26,630
	% Residential	100	76	45	88	94	95	99	27	93
At least 3 mbps and less than 6 mbps	Total Connections	*	*	*	201	1,686	3,860	1,251	1	6,999
	% Residential	100	0	0	39	75	96	91	22	88
At least 6 mbps and less than 10 mbps	Total Connections	0	0	0	*	60	*	44	0	106
	% Residential	0	0	0	100	55	67	99	0	73
At least 10 mbps and less than 25 mbps	Total Connections	*	0	0	*	0	1,593	159	9	1,761
	% Residential	100	0	0	0	0	91	78	19	89
At least 25 mbps and less than 100 mbps	Total Connections	0	0	0	*	0	0	716	*	716
	% Residential	0	0	0	0	0	0	89	13	89
At least 100 mbps	Total Connections	0	0	0	0	0	*	0	*	68
	% Residential	0	0	0	0	0	0	0	16	16
Total	Total Connections	42,327	38,716	44,291	20,338	21,475	36,512	2,387	79	206,124
	% Residential	86	90	78	72	68	96	90	16	83

= Rounds to Zero.

* = Data withheld to maintain firm confidentiality.

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

Source: FCC Form 477, Parts I and VI.

Table 6
Fixed Connections and Percentage Residential by Speed Tier as of June 30, 2011
(In thousands)

<i>Upstream Speed</i>	<i>Customer Class</i>	<i>Downstream Speed</i>								<i>Total</i>
		<i>Greater than 200 kbps and less than 768 kbps</i>	<i>At least 768 kbps and less than 1.5 mbps</i>	<i>At least 1.5 mbps and less than 3 mbps</i>	<i>At least 3 mbps and less than 6 mbps</i>	<i>At least 6 mbps and 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</i>	
Less than or equal to 200 kbps	Total Connections	1,379	2,010	139	66	2	3	0	0	3,598
	% Residential	84	96	45	93	98	100	0	0	89
Greater than 200 kbps and less than 768 kbps	Total Connections	1,752	5,342	8,347	*	*	*	#	0	30,131
	% Residential	87	91	86	85	98	99	90	0	90
At least 768 and less than 1.5 mbps	Total Connections	#	555	3,111	5,652	*	8,834	6	*	22,273
	% Residential	93	75	93	86	88	98	90	0	92
At least 1.5 mbps and less than 3 mbps	Total Connections	*	*	589	161	*	*	211	*	22,562
	% Residential	100	76	13	83	94	95	99	27	93
At least 3 mbps and less than 6 mbps	Total Connections	*	*	*	200	*	3,860	1,251	1	5,351
	% Residential	100	0	0	39	64	96	91	22	92
At least 6 mbps and less than 10 mbps	Total Connections	0	0	0	*	*	2	44	0	*
	% Residential	0	0	0	100	55	67	99	0	73
At least 10 mbps and less than 25 mbps	Total Connections	*	0	0	*	0	1,593	159	9	1,761
	% Residential	100	0	0	0	0	91	78	19	89
At least 25 mbps and less than 100 mbps	Total Connections	0	0	0	*	0	0	716	*	716
	% Residential	0	0	0	0	0	0	89	13	89
At least 100 mbps	Total Connections	0	0	0	0	0	*	0	*	*
	% Residential	0	0	0	0	0	0	0	16	16
Total	Total Connections	3,138	7,908	*	13,784	10,590	*	2,387	79	86,568
	% Residential	86	91	84	85	94	96	90	16	91

= Rounds to Zero.

* = Data withheld to maintain firm confidentiality.

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

Source: FCC Form 477, Parts I and VI.

Table 7
Connections over 200 kbps in at Least One Direction by Technology 2007-2011
(In thousands)

Technology	2007		2008		2009		2010		2011
	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun
Total	100,986	121,222	132,814	102,239	119,433	136,293	157,017	182,065	206,124
Total Fixed	65,681	70,206	73,123	75,707	77,997	79,994	81,764	84,521	86,568
aDSL	27,793	29,449	29,964	30,198	30,631	30,987	30,759	31,470	31,610
sDSL	320	293	275	241	217	225	191	167	159
Other Wireline	622	605	665	705	684	714	750	788	772
Cable Modem	34,404	36,507	38,190	40,251	41,434	42,438	43,923	45,334	46,698
FTTP ¹	1,281	1,849	2,346	2,884	3,548	3,980	4,441	4,993	5,476
Satellite	669	791	869	938	990	1,116	1,144	1,176	1,204
Fixed Wireless	587	707	808	485	488	527	551	587	644
Power Line and Other	5	5	5	5	5	5	6	6	6
Mobile Wireless ²	35,305	51,016	59,691	26,532	41,436	56,300	75,253	97,544	119,556

¹ Fiber to the premises. See Technical Notes at the end of the report for a description of Form 477 technology categories and other reporting requirements.

² Reporting instructions for mobile wireless changed between the June 2008 and December 2008 data. See Technical Notes at the end of the report.

Note: Some historical data have been revised. Figures may not sum to totals due to rounding.

Source: FCC Form 477, Part I.

Chart 6
Connections by Technology as of June 30, 2011

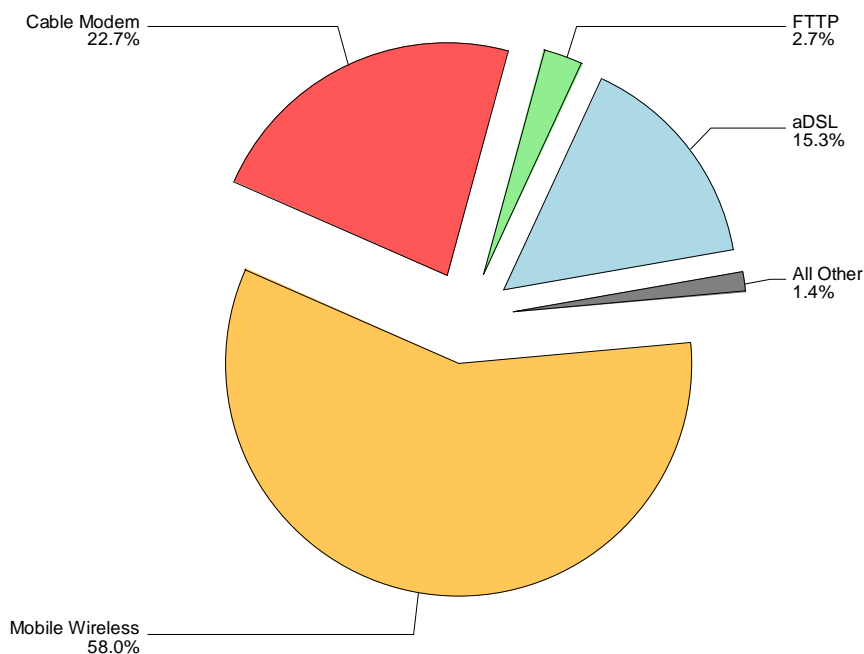


Table 8
Residential Connections over 200 kbps in at Least One Direction by Technology 2007-2011
(In thousands)

Technology	2007		2008		2009		2010		2011
	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun
Total	66,173	73,984	79,090	88,190	103,300	117,088	132,567	149,441	171,767
Total Fixed	60,628	64,875	67,554	69,047	71,509	73,394	75,251	76,918	78,900
aDSL	24,962	26,475	26,950	26,488	27,047	27,402	27,488	27,467	27,753
sDSL	105	82	81	74	71	85	65	53	52
Other Wireline	12	17	32	42	44	51	56	70	39
Cable Modem	33,336	35,341	36,901	38,681	39,909	40,872	42,178	43,295	44,480
FTTP ¹	1,153	1,683	2,139	2,717	3,348	3,758	4,185	4,704	5,118
Satellite	530	626	705	630	668	767	787	811	885
Fixed Wireless	523	644	741	410	417	454	486	513	567
Power Line and Other	5	5	5	5	5	5	6	6	6
Mobile Wireless ²	5,545	9,109	11,536	19,142	31,791	43,695	57,316	72,523	92,867

¹ Fiber to the premises. See Technical Notes at the end of the report for a description of Form 477 technology categories and other reporting requirements.

² Reporting instructions for mobile wireless changed between the June 2008 and December 2008 data. See Technical Notes at the end of the report.

Note: Some historical data have been revised. Figures may not sum to totals due to rounding.

Source: FCC Form 477, Parts I and VI.

Chart 7
Residential Connections by Technology as of June 30, 2011

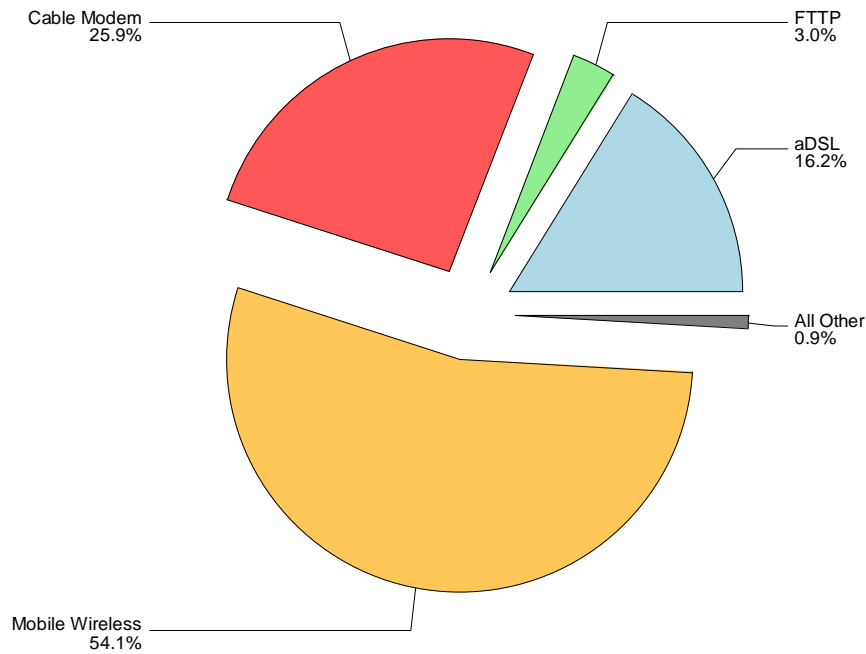


Table 9
Connections at Least 3 mbps Downstream and 768 kbps Upstream by Technology 2008-2011
(In thousands)

Technology	2008		2009		2010		2011
	Dec	Jun	Dec	Jun	Dec	Jun	Jun
Total	31,120	33,332	40,669	45,554	55,113	65,849	
Total Fixed	30,987	33,108	38,963	41,366	44,696	48,576	
aDSL	5,403	5,614	6,389	6,277	7,305	8,909	
sDSL	5	9	19	13	14	16	
Other Wireline	121	128	149	176	208	202	
Cable Modem	22,708	23,958	28,583	30,616	32,338	34,114	
FTTP ¹	2,694	3,333	3,739	4,192	4,725	5,188	
Satellite	#	#	#	#	#	#	
Fixed Wireless	54	64	82	92	105	145	
Power Line and Other	1	1	1	1	3	3	
Mobile Wireless ²	133	224	1,706	4,188	10,416	17,272	

= Rounds to Zero.

¹ Fiber to the premises. See Technical Notes at the end of the report for a description of Form 477 technology categories and other reporting requirements.

² Reporting instructions for mobile wireless changed between the June 2008 and December 2008 data. See Technical Notes at the end of the report.

Note: Some historical data have been revised. Figures may not sum to totals due to rounding.

Source: FCC Form 477, Part I.

Chart 8
Connections at Least 3 mbps Downstream and 768 kbps Upstream
by Technology as of June 30, 2011

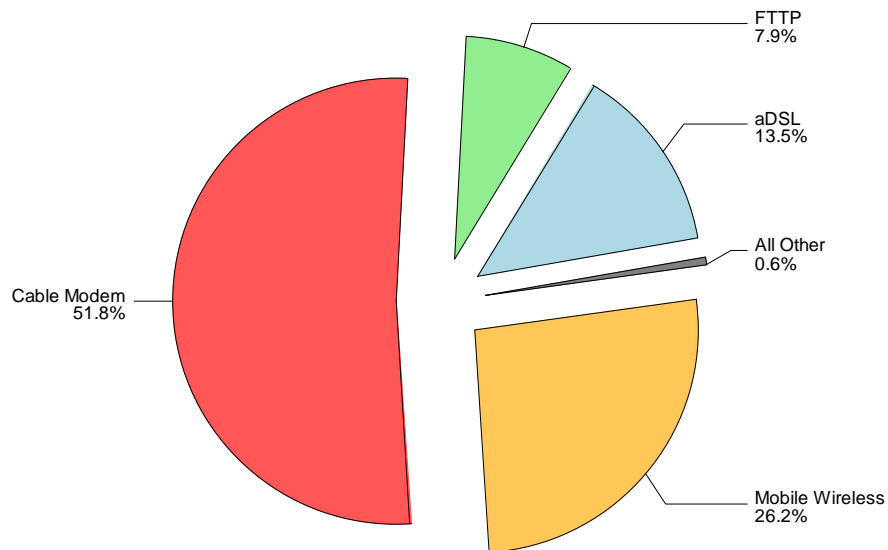


Table 10
Residential Connections at Least 3 mbps Downstream and 768 kbps Upstream by Technology 2008-2011
(In thousands)

Technology	2008		2009		2010		2011
	Dec	Jun	Dec	Jun	Dec	Jun	Jun
Total	29,127	31,356	38,426	42,245	47,634	52,693	
Total Fixed	29,013	31,161	36,844	39,039	41,772	45,263	
aDSL	4,613	4,895	5,633	5,559	6,423	7,909	
sDSL	1	2	10	2	2	4	
Other Wireline	10	11	18	19	33	13	
Cable Modem	21,776	23,025	27,548	29,398	30,742	32,321	
FTTP ¹	2,571	3,177	3,566	3,982	4,482	4,894	
Satellite	0	0	0	0	0	0	
Fixed Wireless	42	50	68	77	86	120	
Power Line and Other	1	1	1	1	3	3	
Mobile Wireless ²	114	196	1,582	3,206	5,863	7,429	

¹ Fiber to the premises. See Technical Notes at the end of the report for a description of Form 477 technology categories and other reporting requirements.

² Reporting instructions for mobile wireless changed between the June 2008 and December 2008 data. See Technical Notes at the end of the report.

Note: Some historical data have been revised. Figures may not sum to totals due to rounding.

Source: FCC Form 477, Parts I and VI.

Chart 9
Residential Connections at Least 3 mbps Downstream and 768 kbps Upstream
by Technology as of June 30, 2011

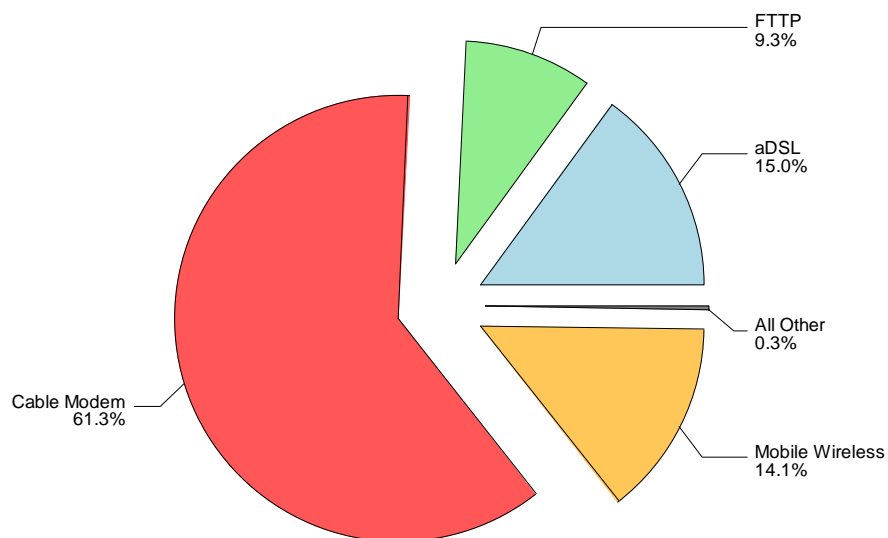


Chart 10
Residential Fixed Connections over 200 kbps in at Least One Direction 2006-2011
 (Shares of selected technologies)

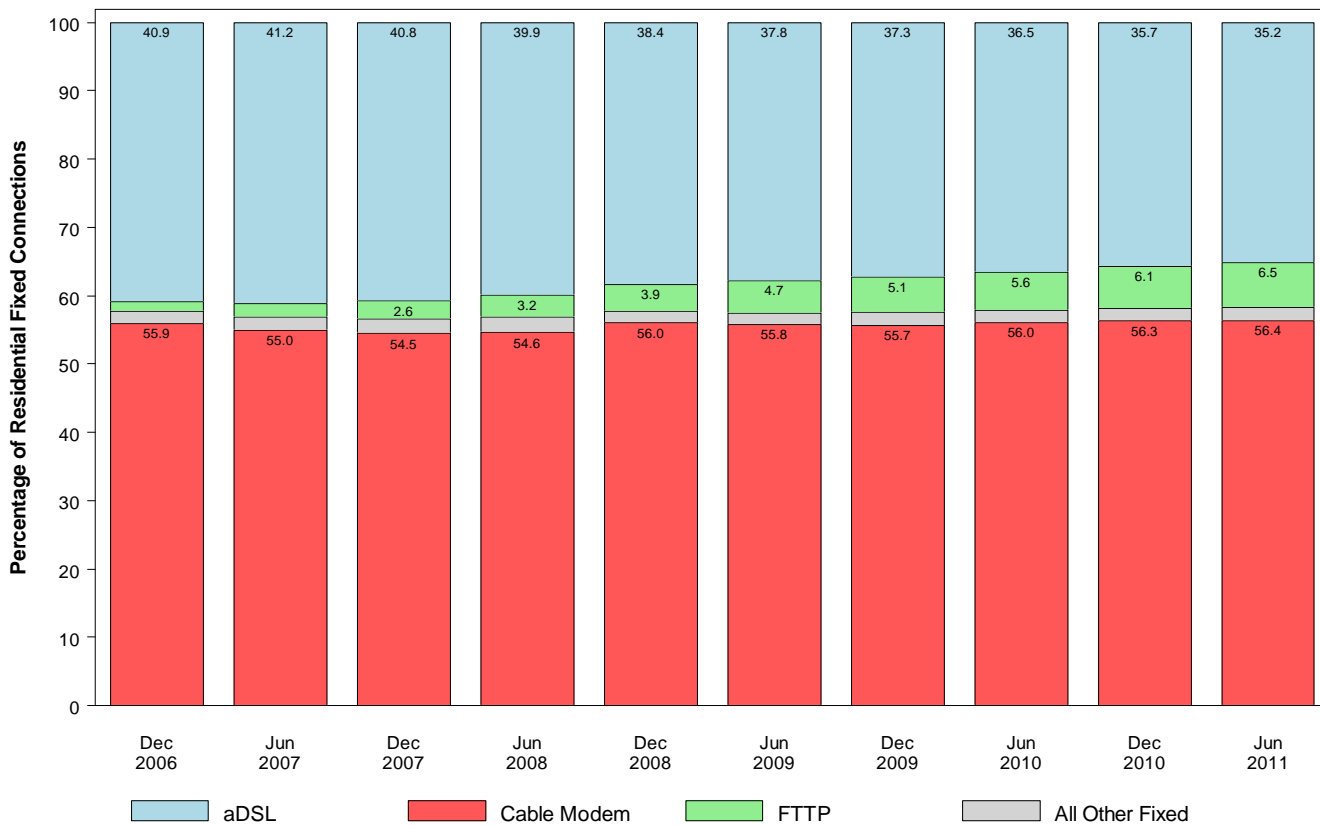


Chart 11
Residential Fixed Connections over 200 kbps in at Least One Direction 2007-2011
 (Net adds for selected technologies)

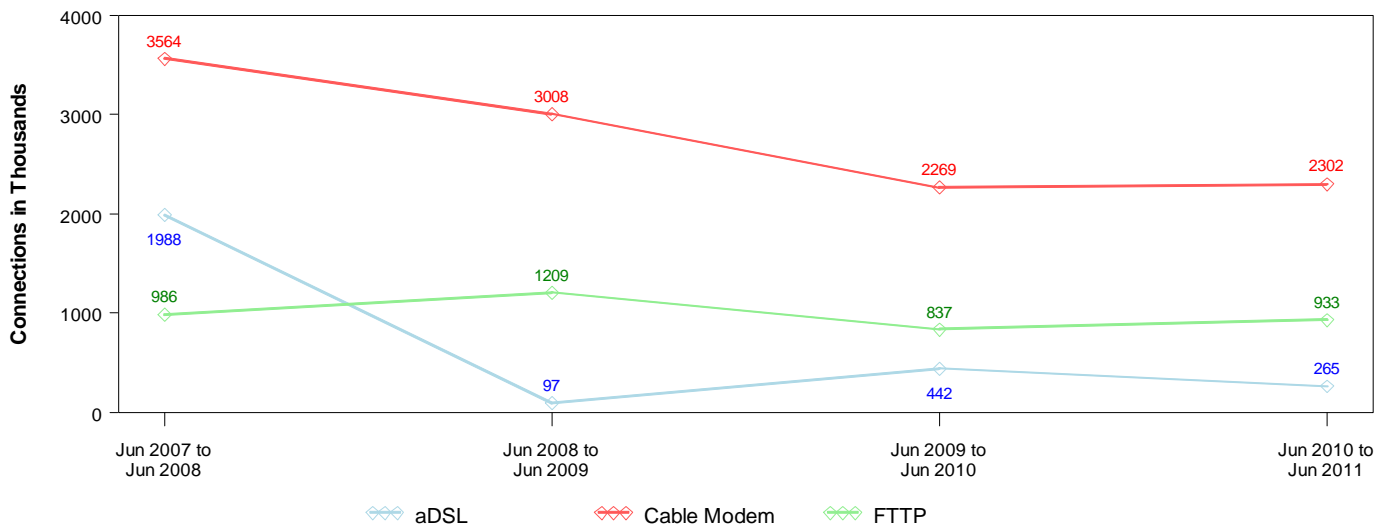


Chart 12
Residential Fixed Connections by Technology as of June 30, 2011
 (Shares of selected technologies for selected speeds, connections in thousands)

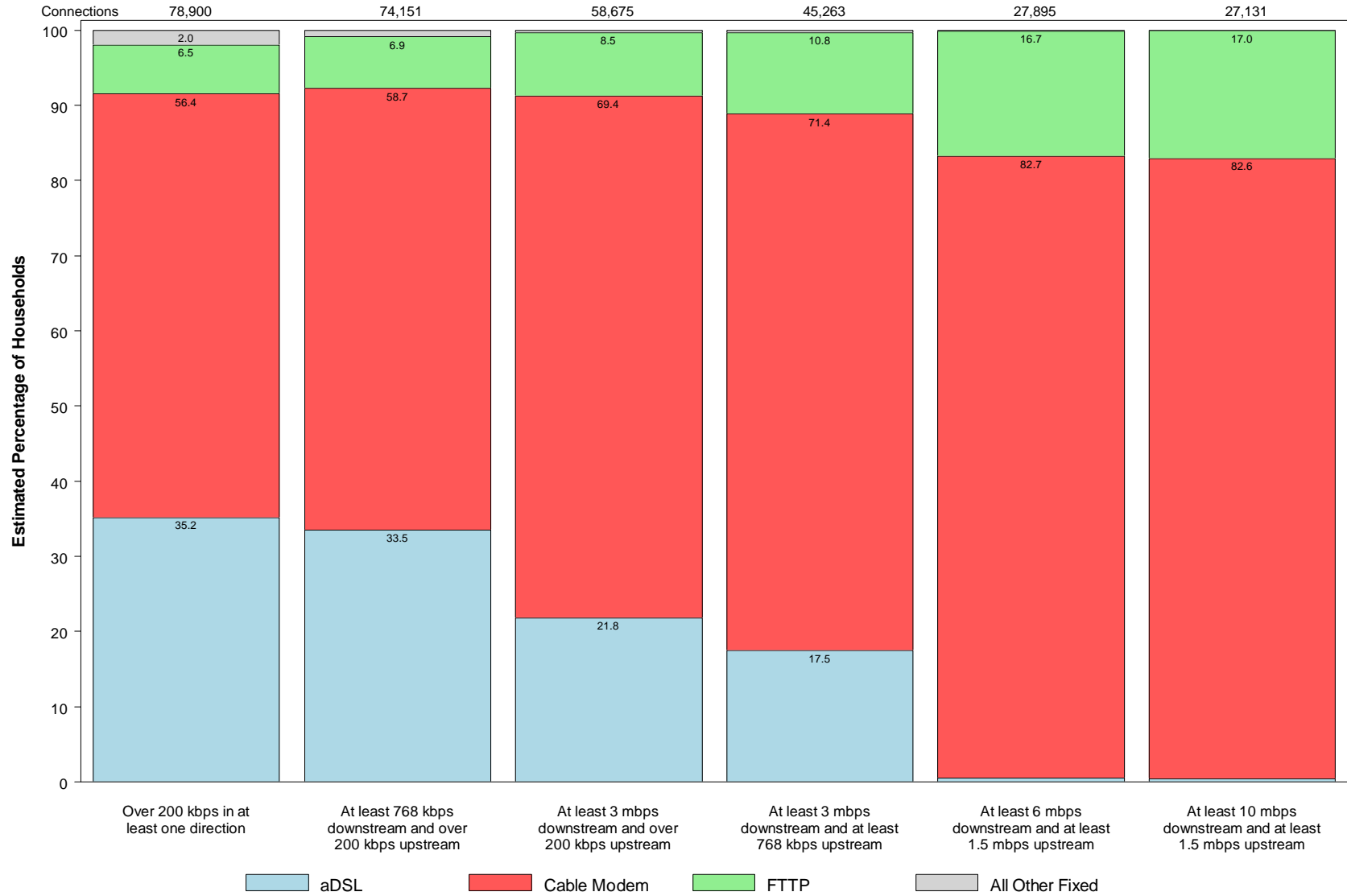
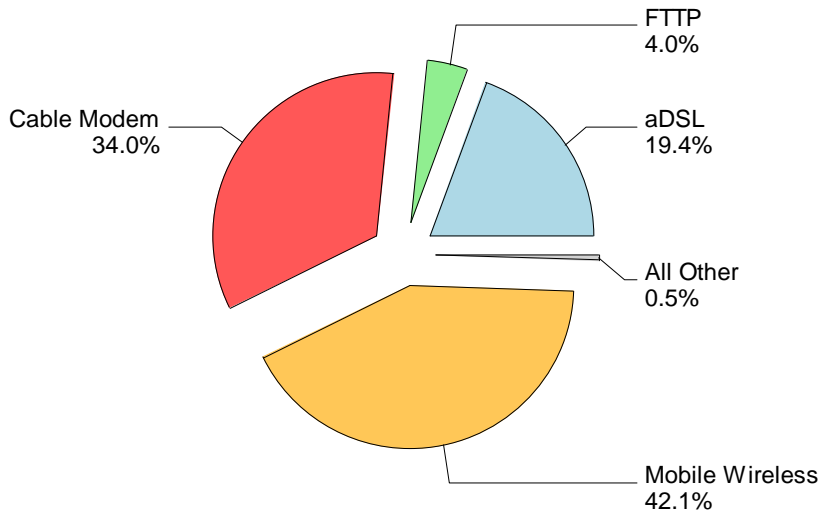


Table 11
Residential Connections by Technology and Speed (BTOP/BIP Definition)
as of June 30, 2011
(In thousands)

<i>Technology</i>	<i>At Most 200 kbps Upstream or less than 768 kbps Downstream</i>	<i>Over 200 kbps Upstream and at least 768 kbps Downstream</i>	<i>Total</i>
aDSL	2,892	24,861	27,753
sDSL	22	31	52
Other Wireline	3	36	39
Cable Modem	926	43,554	44,480
FTTP	16	5,103	5,118
Satellite	768	118	885
Fixed Wireless	121	446	567
Mobile Wireless	38,840	54,027	92,867
Power Line and Other	3	3	6
Total	43,589	128,178	171,767

= Rounds to Zero.
Note: Figures may not sum to totals due to rounding.
Source: FCC Form 477, Parts I and VI.

Chart 13
Residential Connections (BTOP/BIP Definition) by Technology
as of June 30, 2011



Note: The BTOP/BIP definition is advertised speeds of at least 768 kbps downstream and 200 kbps upstream to end users.
Source: FCC Form 477, Parts I and VI.

Table 12
Connections by Speed Tier and Technology as of June 30, 2011
(In thousands)

Technology	200 kbps or less Upstream			Over 200 kbps Upstream								Total
	Download over 200 kbps and less than 768 kbps	Download at least 768 kbps	Subtotal	Download over 200 kbps and less than 768 kbps	Download at least 768 kbps and less than 1.5 mbps	Download at least 1.5 mbps and less than 3 mbps	Download at least 3 mbps and less than 6 mbps	Download at least 6 mbps and less than 10 mbps	Download at least 10 mbps and less than 25 mbps	Download at least 25 mbps	Subtotal	
aDSL	824	833	1,657	1,489	4,767	8,917	10,170	3,430	1,106	74	29,953	31,610
sDSL	0	0	0	55	53	*	12	2	*	#	159	159
Other Wireline	0	0	0	54	76	440	103	21	29	48	772	772
Cable Modem	88	801	888	58	776	2,148	3,080	6,978	31,244	1,526	45,810	46,698
FTTP	4	2	6	14	50	138	217	129	4,108	814	5,470	5,476
Satellite	429	567	996	*	*	*	*	0	0	0	209	1,204
Fixed Wireless	35	17	52	82	150	191	130	30	7	2	592	644
Mobile Wireless	9,224	8,445	17,669	29,965	30,001	*	6,554	10,885	*	0	101,887	119,556
Power Line and Other	0	0	0	*	*	*	*	0	0	0	6	6
Total	10,604	10,664	21,268	31,723	35,899	36,514	20,272	21,473	36,509	2,466	184,856	206,124

Percentages

aDSL	2.6	2.6	5.2	4.7	15.1	28.2	32.2	10.9	3.5	0.2	94.8	100.0
sDSL	0.0	0.0	0.0	34.6	33.4	*	7.6	1.5	*	0.2	100.0	100.0
Other Wireline	0.0	0.0	0.0	7.0	9.9	57.0	13.4	2.7	3.8	6.3	100.0	100.0
Cable Modem	0.2	1.7	1.9	0.1	1.7	4.6	6.6	14.9	66.9	3.3	98.1	100.0
FTTP	0.1	0.0	0.1	0.3	0.9	2.5	4.0	2.3	75.0	14.9	99.9	100.0
Satellite	35.6	47.1	82.7	*	*	*	*	0.0	0.0	0.0	17.3	100.0
Fixed Wireless	5.4	2.6	8.1	12.7	23.3	29.7	20.2	4.6	1.0	0.4	91.9	100.0
Mobile Wireless	7.7	7.1	14.8	25.1	25.1	*	5.5	9.1	*	0.0	85.2	100.0
Power Line and Other	0.0	0.0	0.0	*	*	*	*	0.0	0.0	0.0	100.0	100.0
Total	5.1	5.2	10.3	15.4	17.4	17.7	9.8	10.4	17.7	1.2	89.7	100.0

= Rounds to Zero.

* = Data withheld to maintain firm confidentiality.

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

Source: FCC Form 477, Part I.

Table 13
Residential Connections by Speed Tier and Technology as of June 30, 2011
(In thousands)

Technology	200 kbps or less Upstream			Over 200 kbps Upstream								Total
	Download over 200 kbps and less than 768 kbps	Download at least 768 kbps	Subtotal	Download over 200 kbps and less than 768 kbps	Download at least 768 kbps and less than 1.5 mbps	Download at least 1.5 mbps and less than 3 mbps	Download at least 3 mbps and less than 6 mbps	Download at least 6 mbps and less than 10 mbps	Download at least 10 mbps and less than 25 mbps	Download at least 25 mbps	Subtotal	
aDSL	749	766	1,515	1,376	4,308	7,752	8,573	3,158	1,002	69	26,238	27,753
sDSL	0	0	0	22	22	*	3	1	*	#	52	52
Other Wireline	0	0	0	3	6	18	11	1	#	#	39	39
Cable Modem	83	799	882	44	754	2,057	2,727	6,616	30,024	1,376	43,598	44,480
FTTP	4	2	5	10	41	93	193	118	3,941	716	5,113	5,118
Satellite	292	473	765	*	*	*	*	0	0	0	121	885
Fixed Wireless	32	16	48	72	133	171	113	25	4	#	519	567
Mobile Wireless	7,899	5,313	13,212	25,628	26,744	*	2,882	4,706	*	0	79,655	92,867
Power Line and Other	0	0	0	*	*	*	*	0	0	0	6	6
Total	9,059	7,369	16,427	27,162	32,032	29,872	14,504	14,625	34,984	2,162	155,340	171,767

Percentages

aDSL	2.7	2.8	5.5	5.0	15.5	27.9	30.9	11.4	3.6	0.3	94.5	100.0
sDSL	0.0	0.0	0.0	41.3	41.6	*	5.1	2.1	*	0.0	100.0	100.0
Other Wireline	0.0	0.0	0.0	7.0	15.4	45.3	27.5	2.8	1.1	1.0	100.0	100.0
Cable Modem	0.2	1.8	2.0	0.1	1.7	4.6	6.1	14.9	67.5	3.1	98.0	100.0
FTTP	0.1	0.0	0.1	0.2	0.8	1.8	3.8	2.3	77.0	14.0	99.9	100.0
Satellite	33.0	53.4	86.4	*	*	*	*	0.0	0.0	0.0	13.6	100.0
Fixed Wireless	5.7	2.8	8.5	12.8	23.4	30.2	19.9	4.4	0.8	0.1	91.5	100.0
Mobile Wireless	8.5	5.7	14.2	27.6	28.8	*	3.1	5.1	*	0.0	85.8	100.0
Power Line and Other	0.0	0.0	0.0	*	*	*	*	0.0	0.0	0.0	100.0	100.0
Total	5.3	4.3	9.6	15.8	18.6	17.4	8.4	8.5	20.4	1.3	90.4	100.0

= Rounds to Zero.

* = Data withheld to maintain firm confidentiality.

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

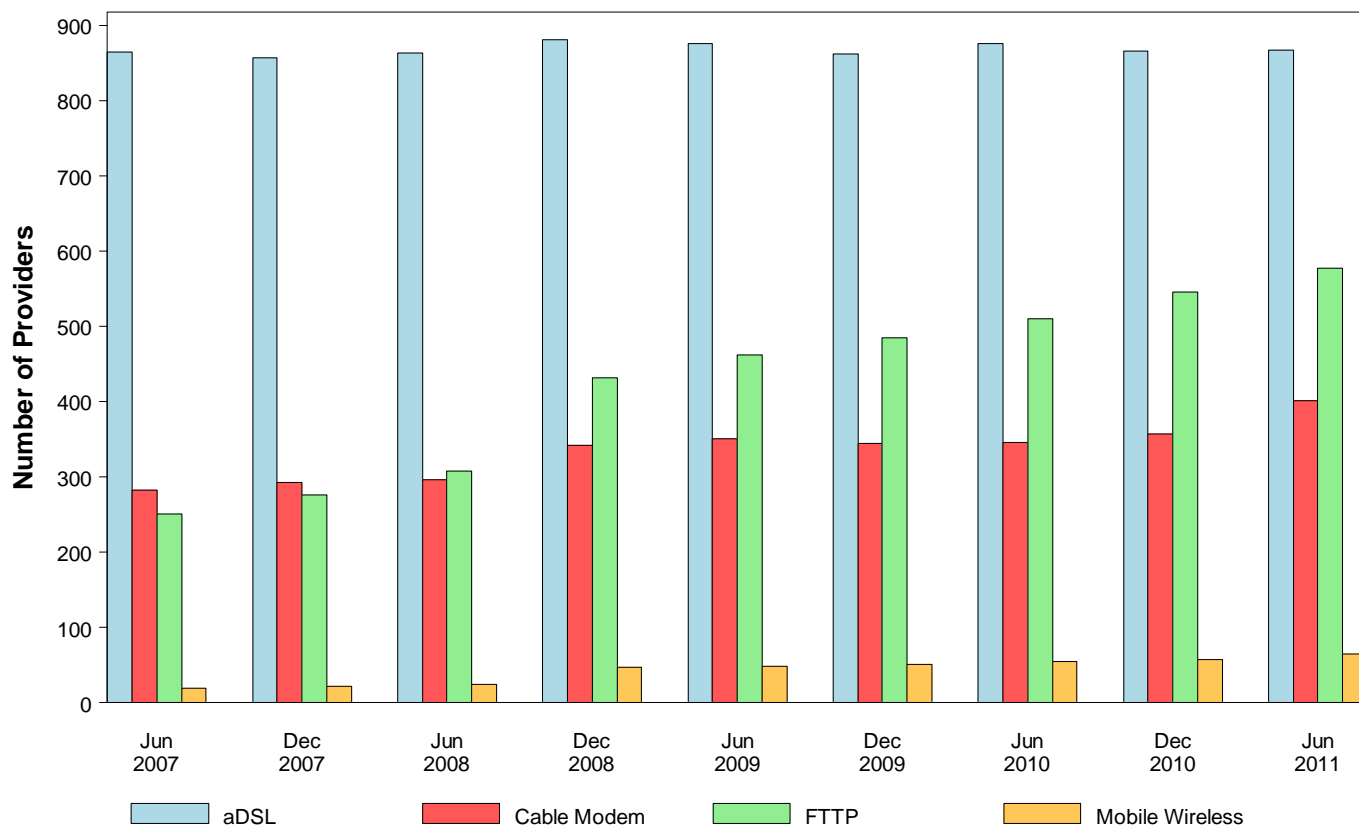
Source: FCC Form 477, Part I.

Table 14
Nationwide Number of Providers of Connections over 200 kbps in at Least One Direction
by Technology 2007-2011

Technology	2007		2008		2009		2010		2011
	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun
aDSL	864	856	863	881	876	862	875	865	866
sDSL	242	233	238	264	257	261	251	247	252
Other Wireline	246	250	259	292	283	274	267	270	262
Cable Modem	282	292	296	342	351	344	345	357	401
FTTP	251	276	308	432	462	485	510	545	577
Satellite	5	5	4	5	4	4	4	4	5
Fixed Wireless	484	514	505	620	621	607	625	646	668
Mobile Wireless	19	22	24	47	48	51	55	57	64
Power Line and Other	6	7	6	5	6	6	5	7	4
Total	1,374	1,399	1,395	1,562	1,551	1,525	1,536	1,566	1,620

Note: Some historical data have been revised. Multiple Form 477 filers within a holding company structure count as one provider.
Source: FCC Form 477, Part I.

Chart 14
Nationwide Number of Providers of Connections over 200 kbps in at Least One Direction
Selected Technologies 2007-2011



Detailed Summary Statistics: The States

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Table 15
Residential Fixed Connections (Approximating the National Broadband Availability Target)
and Households by State as of June 30, 2011

(Connections with advertised speeds at least 3 mbps down and 768 up and households, in thousands)

<i>State</i>	<i>Connections</i>	<i>Households</i>	<i>Subscribership Ratio</i>
Alabama	424	1,867	0.23
Alaska	*	252	*
American Samoa	0	9	0.00
Arizona	993	2,464	0.40
Arkansas	215	1,144	0.19
California	5,565	12,634	0.44
Colorado	1,056	1,978	0.53
Connecticut	696	1,358	0.51
Delaware	226	343	0.66
District of Columbia	150	270	0.55
Florida	3,069	7,344	0.42
Georgia	1,262	3,697	0.34
Guam	*	39	*
Hawaii	*	436	*
Idaho	100	575	0.17
Illinois	1,704	4,803	0.35
Indiana	815	2,493	0.33
Iowa	253	1,197	0.21
Kansas	276	1,101	0.25
Kentucky	567	1,718	0.33
Louisiana	473	1,694	0.28
Maine	120	539	0.22
Maryland	1,403	2,158	0.65
Massachusetts	1,762	2,568	0.69
Michigan	1,463	3,808	0.38
Minnesota	839	2,046	0.41
Mississippi	143	1,098	0.13
Missouri	531	2,374	0.22
Montana	136	394	0.35
Nebraska	294	709	0.41
Nevada	360	1,008	0.36
New Hampshire	279	513	0.54
New Jersey	2,317	3,192	0.73
New Mexico	246	759	0.32
New York	3,521	7,339	0.48
North Carolina	495	3,737	0.13
North Dakota	91	262	0.35
Northern Mariana Isl	*	14	*
Ohio	854	4,540	0.19
Oklahoma	349	1,455	0.24
Oregon	731	1,522	0.48
Pennsylvania	2,524	4,927	0.51
Puerto Rico	*	1,262	*
Rhode Island	*	410	*
South Carolina	349	1,783	0.20
South Dakota	116	317	0.37
Tennessee	789	2,511	0.31
Texas	2,508	8,977	0.28
Utah	424	894	0.47
Vermont	133	248	0.54
Virgin Islands	*	41	*
Virginia	1,725	3,052	0.57
Washington	1,393	2,615	0.53
West Virginia	198	747	0.27
Wisconsin	554	2,220	0.25
Wyoming	93	219	0.43
Total	45,263	117,671	0.38

= Rounds to Zero; * = Data withheld to maintain firm confidentiality.

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

Sources: FCC Form 477, Part VI (Connections); Geolytics 2010 Block-Level Estimates (Households for U.S. and District of Columbia); Census 2000 (Households for Puerto Rico, American Samoa, Guam, Northern Mariana Islands and U.S. Virgin Islands).

Table 16
Residential Fixed Connections and Households by State as of June 30, 2011
(Connections over 200 kbps in at least one direction and households, in thousands)

<i>State</i>	<i>Connections</i>	<i>Households</i>	<i>Subscribership Ratio</i>
Alabama	1,052	1,867	0.56
Alaska	178	252	0.70
American Samoa	*	9	*
Arizona	1,602	2,464	0.65
Arkansas	596	1,144	0.52
California	9,307	12,634	0.74
Colorado	1,449	1,978	0.73
Connecticut	1,056	1,358	0.78
Delaware	259	343	0.76
District of Columbia	183	270	0.68
Florida	5,284	7,344	0.72
Georgia	2,305	3,697	0.62
Guam	*	39	*
Hawaii	*	436	*
Idaho	348	575	0.60
Illinois	3,172	4,803	0.66
Indiana	1,537	2,493	0.62
Iowa	777	1,197	0.65
Kansas	726	1,101	0.66
Kentucky	1,010	1,718	0.59
Louisiana	977	1,694	0.58
Maine	398	539	0.74
Maryland	1,588	2,158	0.74
Massachusetts	1,996	2,568	0.78
Michigan	2,424	3,808	0.64
Minnesota	1,395	2,046	0.68
Mississippi	510	1,098	0.46
Missouri	1,424	2,374	0.60
Montana	257	394	0.65
Nebraska	477	709	0.67
Nevada	648	1,008	0.64
New Hampshire	407	513	0.79
New Jersey	2,562	3,192	0.80
New Mexico	451	759	0.59
New York	5,358	7,339	0.73
North Carolina	2,455	3,737	0.66
North Dakota	178	262	0.68
Northern Mariana Isl	*	14	*
Ohio	3,006	4,540	0.66
Oklahoma	824	1,455	0.57
Oregon	1,014	1,522	0.67
Pennsylvania	3,465	4,927	0.70
Puerto Rico	507	1,262	0.40
Rhode Island	301	410	0.74
South Carolina	1,075	1,783	0.60
South Dakota	193	317	0.61
Tennessee	1,378	2,511	0.55
Texas	5,612	8,977	0.63
Utah	630	894	0.70
Vermont	182	248	0.74
Virgin Islands	12	41	0.29
Virginia	2,072	3,052	0.68
Washington	1,844	2,615	0.71
West Virginia	423	747	0.57
Wisconsin	1,486	2,220	0.67
Wyoming	140	219	0.64
Total	78,900	117,671	0.67

= Rounds to Zero; * = Data withheld to maintain firm confidentiality.

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

Sources: FCC Form 477, Part VI (Connections); Geolytics 2010 Block-Level Estimates (Households for U.S. and District of Columbia); Census 2000 (Households for Puerto Rico, American Samoa, Guam, Northern Mariana Islands and U.S. Virgin Islands).

Table 17
Connections by Type of End User by State as of June 30, 2011
 (Connections over 200 kbps in at least one direction, in thousands)

State	Connections		Percentages		Total
	Residential	Business	Residential	Business	
Alabama	2,382	287	89.3	10.7	2,669
Alaska	432	66	86.8	13.2	498
American Samoa	*	*	*	*	*
Arizona	3,427	520	86.8	13.2	3,947
Arkansas	1,481	200	88.1	11.9	1,681
California	21,782	4,247	83.7	16.3	26,029
Colorado	3,103	611	83.6	16.4	3,713
Connecticut	2,228	402	84.7	15.3	2,630
Delaware	547	90	85.9	14.1	638
District of Columbia	524	470	52.7	47.3	995
Florida	10,245	2,475	80.5	19.5	12,720
Georgia	5,221	1,195	81.4	18.6	6,417
Guam	62	13	82.5	17.5	76
Hawaii	861	123	87.5	12.5	984
Idaho	772	140	84.6	15.4	912
Illinois	7,126	1,519	82.4	17.6	8,645
Indiana	3,244	526	86.0	14.0	3,770
Iowa	1,398	227	86.0	14.0	1,625
Kansas	1,476	462	76.1	23.9	1,938
Kentucky	2,079	360	85.2	14.8	2,439
Louisiana	2,537	396	86.5	13.5	2,933
Maine	661	82	88.9	11.1	743
Maryland	3,609	653	84.7	15.3	4,263
Massachusetts	4,081	711	85.2	14.8	4,792
Michigan	4,660	1,317	78.0	22.0	5,977
Minnesota	2,851	654	81.3	18.7	3,505
Mississippi	1,458	169	89.6	10.4	1,628
Missouri	3,018	728	80.6	19.4	3,746
Montana	581	68	89.5	10.5	649
Nebraska	930	183	83.6	16.4	1,113
Nevada	1,574	292	84.4	15.6	1,866
New Hampshire	757	109	87.4	12.6	866
New Jersey	5,564	965	85.2	14.8	6,529
New Mexico	1,050	144	87.9	12.1	1,193
New York	11,470	2,194	83.9	16.1	13,664
North Carolina	4,922	977	83.4	16.6	5,899
North Dakota	437	62	87.5	12.5	499
Northern Mariana Isl	*	*	*	*	*
Ohio	6,173	1,155	84.2	15.8	7,328
Oklahoma	1,967	310	86.4	13.6	2,276
Oregon	2,164	385	84.9	15.1	2,549
Pennsylvania	7,057	1,155	85.9	14.1	8,212
Puerto Rico	1,268	154	89.2	10.8	1,422
Rhode Island	595	104	85.1	14.9	699
South Carolina	2,253	328	87.3	12.7	2,581
South Dakota	478	56	89.5	10.5	534
Tennessee	3,220	612	84.0	16.0	3,833
Texas	13,972	3,515	79.9	20.1	17,487
Utah	1,385	305	81.9	18.1	1,690
Vermont	326	52	86.3	13.7	377
Virgin Islands	52	15	77.6	22.4	68
Virginia	4,605	982	82.4	17.6	5,588
Washington	3,969	888	81.7	18.3	4,857
West Virginia	781	113	87.4	12.6	893
Wisconsin	2,610	544	82.8	17.2	3,154
Wyoming	334	41	89.1	10.9	375
Total	171,767	34,357	83.3	16.7	206,124

= Rounds to Zero.

* = Data withheld to maintain firm confidentiality.

Figures may not sum to totals due to rounding.

Source: FCC Form 477, Part I and VI.

Table 18
Connections by Technology by State as of June 30, 2011
(Connections over 200 kbps in at least one direction, in thousands)

<i>State</i>	<i>ADSL</i>	<i>SDSL</i>	<i>Other Wireline</i>	<i>Cable Modem</i>	<i>Fiber</i>	<i>Satellite</i>	<i>Fixed Wireless</i>	<i>Mobile Wireless</i>	<i>Power Line and Other</i>	<i>Total</i>
Alabama	536	5	11	556	7	*	6	1,513	*	2,669
Alaska	79	3	#	*	1	*	6	292	0	498
American Samoa	*	*	0	*	*	0	*	0	0	*
Arizona	557	1	*	1,104	5	*	25	2,220	0	3,947
Arkansas	337	#	*	288	4	*	1	1,020	0	1,681
California	4,471	14	*	4,853	621	*	27	15,834	0	26,029
Colorado	*	2	22	817	9	*	45	2,126	0	3,713
Connecticut	*	2	5	713	3	*	*	1,479	0	2,630
Delaware	*	#	4	164	*	*	0	359	0	638
District of Columbia	*	2	6	*	9	*	*	784	0	995
Florida	2,104	2	*	3,313	361	*	5	6,842	0	12,720
Georgia	1,435	1	*	1,151	32	*	#	3,730	0	6,417
Guam	*	*	*	*	0	0	*	*	0	76
Hawaii	*	*	1	*	1	*	*	606	0	984
Idaho	185	#	*	150	2	*	31	530	0	912
Illinois	1,576	7	*	1,768	13	*	42	5,163	0	8,645
Indiana	763	3	10	766	70	*	34	2,095	*	3,770
Iowa	381	2	*	395	28	*	26	772	0	1,625
Kansas	273	1	*	447	32	*	24	1,141	0	1,938
Kentucky	481	4	*	565	13	*	7	1,339	0	2,439
Louisiana	407	2	*	593	34	*	4	1,855	0	2,933
Maine	134	4	2	286	4	*	*	304	0	743
Maryland	*	3	17	797	*	*	1	2,552	0	4,263
Massachusetts	*	3	18	1,401	*	*	2	2,633	*	4,792
Michigan	922	7	19	1,603	9	*	28	3,332	*	5,977
Minnesota	629	14	*	800	31	*	17	1,980	0	3,505
Mississippi	267	1	*	258	2	*	#	1,061	0	1,628
Missouri	862	1	*	617	10	*	13	2,181	0	3,746
Montana	123	2	2	127	5	*	18	*	0	649
Nebraska	173	1	*	316	6	*	19	587	0	1,113

Table 18 - Continued
Connections by Technology by State as of June 30, 2011
(Connections over 200 kbps in at least one direction, in thousands)

<i>State</i>	<i>ADSL</i>	<i>SDSL</i>	<i>Other Wireline</i>	<i>Cable Modem</i>	<i>Fiber</i>	<i>Satellite</i>	<i>Fixed Wireless</i>	<i>Mobile Wireless</i>	<i>Power Line and Other</i>	<i>Total</i>
Nevada	245	#	7	*	3	*	3	1,158	0	1,866
New Hampshire	87	1	*	340	12	*	#	415	0	866
New Jersey	449	2	28	1,759	*	*	#	3,728	0	6,529
New Mexico	271	#	*	190	3	*	16	698	0	1,193
New York	928	10	47	4,091	*	*	2	7,792	*	13,664
North Carolina	1,026	1	26	1,566	22	*	1	3,226	*	5,899
North Dakota	71	1	*	96	24	*	7	296	0	499
Northern Mariana Isl	*	0	*	*	*	0	*	*	0	*
Ohio	1,190	5	18	1,943	37	*	26	4,075	*	7,328
Oklahoma	384	#	*	474	10	*	9	1,361	0	2,276
Oregon	358	4	*	640	74	*	11	1,436	0	2,549
Pennsylvania	1,131	6	25	2,057	*	*	1	4,467	*	8,212
Puerto Rico	*	*	4	*	*	*	*	871	0	1,422
Rhode Island	*	#	1	*	*	*	*	372	0	699
South Carolina	452	#	12	664	29	*	1	1,406	*	2,581
South Dakota	60	1	#	124	18	*	9	*	0	534
Tennessee	576	5	*	824	60	*	2	2,313	0	3,833
Texas	2,943	8	*	2,578	383	*	63	11,325	0	17,487
Utah	309	2	*	303	20	*	42	1,003	0	1,690
Vermont	87	#	3	104	5	*	*	169	0	377
Virgin Islands	*	0	*	0	0	*	*	*	0	68
Virginia	498	2	32	1,141	*	*	4	3,334	*	5,588
Washington	583	3	*	1,296	71	*	11	2,845	0	4,857
West Virginia	*	*	2	274	1	*	2	429	0	893
Wisconsin	658	16	8	870	13	*	27	1,534	*	3,154
Wyoming	59	*	1	82	1	*	6	218	0	375
Total	31,610	159	772	46,698	5,476	1,204	644	119,556	6	206,124

= Rounds to Zero.

* = Data withheld to maintain firm confidentiality.

Figures may not sum to totals due to rounding.

Source: FCC Form 477, Part I.

Table 19
Connections by Technology by State as of June 30, 2011
(Connections at least 3 mbps downstream and 768 kbps upstream, in thousands)

<i>State</i>	<i>ADSL</i>	<i>SDSL</i>	<i>Other Wireline</i>	<i>Cable Modem</i>	<i>Fiber</i>	<i>Satellite</i>	<i>Fixed Wireless</i>	<i>Mobile Wireless</i>	<i>Power Line and Other</i>	<i>Total</i>
Alabama	78	#	2	368	4	*	1	*	0	523
Alaska	*	*	#	*	#	*	*	*	0	59
American Samoa	0	0	0	0	*	0	0	0	0	*
Arizona	*	*	3	777	4	*	3	*	0	1,161
Arkansas	62	*	1	165	3	*	*	*	0	233
California	1,008	1	*	4,194	600	*	8	2,125	0	7,958
Colorado	*	#	5	770	5	*	20	284	0	1,411
Connecticut	*	*	2	671	3	0	*	*	0	906
Delaware	*	*	1	147	*	0	0	*	0	285
District of Columbia	*	*	3	*	8	0	*	*	0	437
Florida	439	#	17	2,474	*	*	2	1,309	0	4,584
Georgia	290	#	8	1,012	22	*	#	*	0	1,901
Guam	*	*	*	*	0	0	*	*	0	8
Hawaii	*	*	#	*	1	0	0	*	0	456
Idaho	79	*	#	33	2	*	3	*	0	187
Illinois	308	2	*	1,492	9	*	11	1,102	0	2,933
Indiana	201	*	2	611	64	*	6	180	0	1,064
Iowa	145	#	1	121	13	*	6	*	0	454
Kansas	51	#	*	222	18	*	1	303	0	597
Kentucky	172	*	1	417	6	*	2	184	0	782
Louisiana	36	*	1	430	24	*	#	*	0	524
Maine	74	#	#	67	4	*	*	*	0	187
Maryland	*	*	5	748	*	*	#	353	0	1,847
Massachusetts	*	#	8	1,311	*	*	1	309	0	2,201
Michigan	197	1	*	1,334	7	*	1	660	0	2,205
Minnesota	198	2	*	677	18	*	1	348	0	1,247
Mississippi	20	*	#	138	1	*	*	*	0	172
Missouri	167	*	5	387	4	*	1	406	0	970
Montana	26	*	#	*	3	*	1	0	0	148
Nebraska	75	*	#	233	2	0	1	*	0	331

Table 19 - Continued
Connections by Technology by State as of June 30, 2011
(Connections at least 3 mbps downstream and 768 kbps upstream, in thousands)

<i>State</i>	<i>ADSL</i>	<i>SDSL</i>	<i>Other Wireline</i>	<i>Cable Modem</i>	<i>Fiber</i>	<i>Satellite</i>	<i>Fixed Wireless</i>	<i>Mobile Wireless</i>	<i>Power Line and Other</i>	<i>Total</i>
Nevada	54	*	1	*	2	*	2	*	0	592
New Hampshire	45	#	1	252	*	0	0	*	0	335
New Jersey	245	#	9	*	*	*	#	*	0	2,887
New Mexico	102	*	1	160	2	*	1	*	0	285
New York	441	1	19	2,672	*	*	1	*	0	5,060
North Carolina	264	#	*	273	16	*	#	579	0	1,139
North Dakota	22	*	#	69	10	0	*	0	0	104
Northern Mariana Isl	*	0	*	0	*	0	*	0	0	*
Ohio	424	*	4	509	32	*	2	525	*	1,498
Oklahoma	60	*	1	297	6	*	*	171	0	536
Oregon	118	#	*	597	70	*	3	230	0	1,019
Pennsylvania	530	*	8	1,682	*	*	#	550	0	3,270
Puerto Rico	*	*	*	*	*	*	*	*	0	59
Rhode Island	*	*	#	*	*	0	*	*	0	354
South Carolina	93	*	3	269	18	*	#	126	0	509
South Dakota	10	0	#	109	10	*	1	*	0	135
Tennessee	70	#	*	728	42	*	#	306	0	1,151
Texas	735	#	*	1,564	338	*	24	2,157	0	4,836
Utah	124	*	1	278	19	*	30	*	0	617
Vermont	53	*	#	93	4	*	0	*	0	152
Virgin Islands	0	0	*	0	0	0	*	0	0	*
Virginia	257	#	13	1,047	*	*	2	446	0	2,289
Washington	210	*	3	1,213	65	*	2	415	0	1,908
West Virginia	2	0	#	206	1	*	*	*	0	244
Wisconsin	137	2	2	447	8	0	2	398	0	998
Wyoming	17	*	*	81	1	*	1	0	0	101
Total	8,909	16	202	34,114	5,188	#	145	17,272	3	65,849

= Rounds to Zero.

* = Data withheld to maintain firm confidentiality.

Figures may not sum to totals due to rounding.

Source: FCC Form 477, Part I.

Table 20
Percentage of Connections by Downstream Speed by State as of June 30, 2011
(Connections over 200 kbps in at least one direction)

State	Over 200 kbps Upstream and				
	% over 200 kbps Downstream	% at least 768 kbps Downstream	% at least 3 mbps Downstream	% at least 6 mbps Downstream	% at least 10 mbps Downstream
Alabama	89.1	70.9	29.7	23.0	12.4
Alaska	90.0	84.2	25.2	15.4	10.3
American Samoa	*	*	*	*	*
Arizona	89.9	69.8	37.3	29.1	20.8
Arkansas	92.0	76.6	21.8	13.6	11.1
California	89.0	74.2	35.1	25.9	18.2
Colorado	91.9	75.2	39.1	34.2	22.0
Connecticut	91.3	74.1	37.8	30.8	22.4
Delaware	89.0	69.8	47.1	41.1	33.8
District of Columbia	89.8	69.0	45.2	38.8	12.2
Florida	91.7	82.0	44.9	34.9	21.6
Georgia	89.5	74.3	37.0	25.1	15.7
Guam	*	*	*	*	*
Hawaii	94.7	82.8	47.7	31.2	17.2
Idaho	87.4	64.9	35.1	15.5	5.3
Illinois	91.8	78.4	39.0	27.4	17.1
Indiana	88.7	71.4	33.4	22.8	16.6
Iowa	90.1	70.1	47.1	25.6	7.8
Kansas	88.6	74.6	42.7	29.0	11.7
Kentucky	90.6	80.7	40.2	26.0	17.7
Louisiana	89.4	79.6	24.8	17.5	13.5
Maine	89.5	76.9	49.5	34.5	8.9
Maryland	88.5	71.1	44.1	35.5	29.8
Massachusetts	90.2	73.0	46.9	39.8	34.1
Michigan	87.8	71.6	40.2	31.1	16.6
Minnesota	90.0	73.9	41.4	34.0	21.1
Mississippi	93.0	62.8	20.3	11.3	4.9
Missouri	90.6	80.4	34.4	22.6	11.1
Montana	82.7	55.5	25.2	19.9	1.0
Nebraska	84.7	59.7	37.1	23.8	20.5

Table 20 - Continued
Percentage of Connections by Downstream Speed by State as of June 30, 2011
(Connections over 200 kbps in at least one direction)

State	Over 200 kbps Upstream and				
	% over 200 kbps Downstream	% at least 768 kbps Downstream	% at least 3 mbps Downstream	% at least 6 mbps Downstream	% at least 10 mbps Downstream
Nevada	92.6	80.9	41.0	27.5	18.4
New Hampshire	87.9	65.1	46.9	37.6	33.1
New Jersey	88.9	70.0	45.3	39.5	35.1
New Mexico	87.9	66.4	26.9	21.8	6.7
New York	89.0	72.9	47.3	38.4	31.3
North Carolina	86.9	68.5	43.5	30.7	8.1
North Dakota	87.0	63.2	29.8	19.8	16.6
Northern Mariana Isl	*	*	*	*	*
Ohio	84.6	63.9	36.5	26.2	6.5
Oklahoma	93.1	86.9	32.8	16.4	13.0
Oregon	92.1	77.3	42.1	34.9	24.8
Pennsylvania	89.3	72.5	44.0	32.4	25.6
Puerto Rico	85.0	78.4	19.8	9.4	0.4
Rhode Island	90.9	75.2	50.8	42.5	36.2
South Carolina	86.0	66.0	36.7	27.4	14.3
South Dakota	86.4	66.7	30.5	28.5	22.5
Tennessee	88.0	67.6	35.1	27.4	19.6
Texas	92.3	81.7	36.0	24.8	10.8
Utah	92.5	77.1	39.7	32.1	18.9
Vermont	87.6	71.7	41.3	30.0	15.8
Virgin Islands	92.5	74.4	*	*	*
Virginia	88.4	68.7	42.5	32.5	24.8
Washington	91.7	76.9	41.4	34.9	26.3
West Virginia	91.6	84.6	46.7	40.1	19.1
Wisconsin	90.6	77.7	45.4	30.1	14.9
Wyoming	86.7	57.6	28.6	22.9	1.6
Total	89.7	74.3	39.2	29.3	18.9

* = Data withheld to maintain firm confidentiality.
Source: FCC Form 477, Part I.

Table 21
ADSL Connections by State 2007-2011
(Connections over 200 kbps in at least one direction, in thousands)

State	2007		2008		2009		2010		2011
	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun
Alabama	357	403	431	457	473	496	498	523	536
Alaska	64	68	72	75	77	77	77	78	79
American Samoa	*	*	*	*	*	*	*	*	*
Arizona	406	437	454	466	487	518	527	552	557
Arkansas	227	249	267	273	298	308	314	330	337
California	4,626	4,780	4,755	4,617	4,587	4,568	4,456	4,538	4,471
Colorado	530	573	575	624	641	651	658	663	*
Connecticut	*	*	*	*	*	*	*	*	*
Delaware	*	*	*	*	*	*	*	*	*
District of Columbia	*	*	*	*	*	*	*	*	*
Florida	1,960	2,046	2,045	2,005	1,962	1,988	2,006	2,070	2,104
Georgia	1,219	1,307	1,361	1,240	1,251	1,256	1,129	1,413	1,435
Guam	*	*	*	*	*	*	*	*	*
Hawaii	*	*	*	*	*	*	*	*	*
Idaho	129	142	154	160	169	174	177	181	185
Illinois	1,300	1,382	1,419	1,503	1,538	1,556	1,537	1,577	1,576
Indiana	584	636	651	672	699	721	725	754	763
Iowa	271	298	322	336	351	362	373	376	381
Kansas	225	236	241	243	250	260	264	271	273
Kentucky	340	367	385	421	431	454	459	473	481
Louisiana	306	333	354	385	390	404	397	396	407
Maine	115	118	120	114	123	125	126	125	134
Maryland	512	514	495	471	440	405	*	350	*
Massachusetts	*	*	*	*	*	*	*	*	*
Michigan	690	733	749	780	835	857	860	902	922
Minnesota	449	496	529	544	573	590	611	618	629
Mississippi	180	202	220	229	240	255	240	263	267
Missouri	618	683	712	727	767	805	811	846	862
Montana	96	102	108	108	111	115	119	119	123
Nebraska	124	135	143	151	158	164	167	169	173

Table 21 - Continued
ADSL Connections by State 2007-2011
(Connections over 200 kbps in at least one direction, in thousands)

State	2007		2008		2009		2010		2011
	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun
Nevada	207	220	225	222	225	229	232	242	245
New Hampshire	98	100	97	91	91	86	84	85	87
New Jersey	735	735	700	666	624	568	530	486	449
New Mexico	180	200	217	231	242	250	259	266	271
New York	1,182	1,184	1,169	1,122	1,100	1,046	1,010	957	928
North Carolina	725	820	870	891	918	969	985	995	1,026
North Dakota	51	56	60	65	64	67	67	69	71
Northern Mariana Isl	*	*	*	*	*	*	*	*	*
Ohio	951	1,024	1,034	1,069	1,109	1,127	1,145	1,177	1,190
Oklahoma	302	324	334	338	349	359	361	379	384
Oregon	339	356	361	371	367	367	362	359	358
Pennsylvania	1,126	1,191	1,209	1,231	1,246	1,232	1,202	1,159	1,131
Puerto Rico	*	*	*	*	*	*	*	*	*
Rhode Island	*	*	*	*	*	*	*	*	*
South Carolina	323	359	386	400	412	428	437	434	452
South Dakota	46	48	53	56	58	58	60	58	60
Tennessee	447	499	535	541	549	559	570	557	576
Texas	2,294	2,464	2,475	2,608	2,706	2,784	2,797	2,898	2,943
Utah	250	270	284	299	280	309	312	311	309
Vermont	68	72	73	61	79	81	84	85	87
Virgin Islands	*	*	*	*	*	*	*	*	*
Virginia	548	568	561	553	547	536	527	507	498
Washington	569	592	600	599	596	593	589	582	583
West Virginia	124	138	147	152	160	161	162	*	*
Wisconsin	484	528	556	556	586	612	615	646	658
Wyoming	50	53	55	57	58	58	59	59	59
Total	27,793	29,449	29,964	30,198	30,631	30,987	30,759	31,470	31,610

= Rounds to Zero.

* = Data withheld to maintain firm confidentiality.

Note: Some historical data have been revised. Figures may not sum to totals due to rounding.

Source: FCC Form 477, Part I.

Table 22
Cable Modem Connections by State 2007-2011
(Connections over 200 kbps in at least one direction, in thousands)

State	2007		2008		2009		2010		2011
	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun
Alabama	374	399	417	460	478	497	513	539	556
Alaska	*	*	*	*	*	*	*	*	*
American Samoa	0	0	0	0	0	0	0	*	*
Arizona	850	897	992	1,044	1,039	1,104	1,096	1,161	1,104
Arkansas	205	214	236	227	252	262	267	278	288
California	3,411	3,603	3,799	3,990	4,144	4,223	4,418	4,639	4,853
Colorado	561	604	626	659	693	709	744	787	817
Connecticut	513	550	576	615	626	640	672	673	713
Delaware	*	*	*	*	*	*	158	156	164
District of Columbia	*	*	*	*	*	*	*	*	*
Florida	2,344	2,543	2,631	2,825	2,859	2,992	3,076	3,292	3,313
Georgia	802	862	904	974	1,020	1,022	1,052	1,114	1,151
Guam	0	*	*	*	*	*	*	*	*
Hawaii	*	*	*	*	*	*	*	*	*
Idaho	116	123	127	121	130	133	137	145	150
Illinois	1,466	1,570	1,625	1,591	1,575	1,577	1,630	1,696	1,768
Indiana	410	439	456	626	641	669	697	728	766
Iowa	268	287	309	330	344	360	376	389	395
Kansas	351	369	380	415	419	435	434	441	447
Kentucky	384	435	482	452	483	497	512	530	565
Louisiana	446	485	481	518	544	559	562	586	593
Maine	169	179	197	202	224	237	259	269	286
Maryland	829	865	871	801	757	768	778	773	797
Massachusetts	1,088	1,136	1,159	1,291	1,253	1,250	1,339	1,343	1,401
Michigan	1,197	1,265	1,307	1,394	1,431	1,451	1,517	1,537	1,603
Minnesota	571	608	622	666	685	701	739	776	800
Mississippi	152	166	188	216	227	232	241	246	258
Missouri	473	498	517	560	561	586	599	604	617
Montana	74	83	90	92	102	108	113	119	127
Nebraska	238	252	262	278	286	295	293	309	316

Table 22 - Continued
Cable Modem Connections by State 2007-2011
(Connections over 200 kbps in at least one direction, in thousands)

State	2007		2008		2009		2010		2011
	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun
Nevada	*	*	*	*	*	*	*	*	*
New Hampshire	230	240	250	285	295	303	329	325	340
New Jersey	1,474	1,538	1,586	1,637	1,604	1,623	1,698	1,702	1,759
New Mexico	117	127	137	146	155	158	168	176	190
New York	3,164	3,342	3,548	3,749	3,850	3,886	3,982	4,013	4,091
North Carolina	1,134	1,196	1,266	1,344	1,392	1,444	1,513	1,554	1,566
North Dakota	76	80	83	85	88	93	90	101	96
Northern Mariana Isl	0	*	*	*	*	*	*	*	*
Ohio	1,406	1,498	1,627	1,705	1,757	1,813	1,862	1,895	1,943
Oklahoma	348	373	382	408	429	432	436	468	474
Oregon	490	531	554	517	528	542	576	608	640
Pennsylvania	1,271	1,399	1,492	1,800	1,777	1,835	1,915	1,983	2,057
Puerto Rico	*	*	*	*	*	*	*	*	*
Rhode Island	*	*	*	*	*	*	*	*	*
South Carolina	459	496	517	555	582	598	627	660	664
South Dakota	101	111	115	122	122	127	118	134	124
Tennessee	663	703	715	718	739	751	784	795	824
Texas	2,082	2,183	2,214	1,971	2,280	2,383	2,456	2,459	2,578
Utah	*	*	212	*	243	253	268	283	303
Vermont	*	*	*	71	80	83	93	97	104
Virgin Islands	0	0	0	0	0	0	0	0	0
Virginia	906	921	941	1,096	1,097	1,105	1,114	1,124	1,141
Washington	862	909	944	998	1,102	1,106	1,186	1,239	1,296
West Virginia	156	159	167	205	215	226	220	255	274
Wisconsin	637	676	711	759	779	802	823	846	870
Wyoming	*	*	*	64	70	74	76	80	82
Total	34,404	36,507	38,190	40,251	41,434	42,438	43,923	45,334	46,698

= Rounds to Zero.

* = Data withheld to maintain firm confidentiality.

Note: Some historical data have been revised. Figures may not sum to totals due to rounding.

Source: FCC Form 477, Part I.

Table 23
Providers of Connections by Technology by State as of June 30, 2011
(Connections over 200 kbps in at least one direction)

<i>State</i>	<i>ADSL</i>	<i>SDSL</i>	<i>Other Wireline</i>	<i>Cable Modem</i>	<i>Fiber</i>	<i>Satellite</i>	<i>Fixed Wireless</i>	<i>Mobile Wireless</i>	<i>Power Line and Other</i>	<i>Total</i>
Alabama	26	9	22	22	25	*	16	6	*	81
Alaska	12	4	6	4	5	*	8	6	0	22
American Samoa	*	*	0	*	*	0	*	0	0	*
Arizona	24	7	24	11	24	4	22	6	0	76
Arkansas	21	8	12	17	15	*	5	5	0	53
California	36	20	46	23	28	*	35	10	0	123
Colorado	34	10	31	17	24	*	32	10	0	95
Connecticut	8	8	19	8	14	*	*	4	0	36
Delaware	5	4	14	4	6	*	0	6	0	27
District of Columbia	10	8	23	*	8	*	*	5	0	34
Florida	30	19	46	21	34	*	23	7	0	99
Georgia	34	16	35	34	42	*	8	8	0	104
Guam	*	*	*	*	0	0	*	*	0	5
Hawaii	4	4	5	*	6	*	*	5	0	19
Idaho	25	6	18	13	20	*	17	8	0	61
Illinois	60	22	44	21	29	*	51	11	0	144
Indiana	36	13	25	15	39	*	42	7	*	97
Iowa	130	31	27	43	72	*	67	10	0	210
Kansas	41	14	22	27	38	*	31	11	0	97
Kentucky	27	10	20	29	21	*	18	9	0	89
Louisiana	18	7	20	16	17	*	6	6	0	58
Maine	13	9	11	6	10	*	*	5	0	29
Maryland	15	10	29	12	15	*	8	6	0	58
Massachusetts	14	9	29	11	12	*	7	6	*	56
Michigan	39	20	35	17	22	*	30	9	*	98
Minnesota	56	18	28	19	44	*	32	6	0	108
Mississippi	20	5	19	12	11	*	5	6	0	53
Missouri	39	15	26	22	26	*	36	7	0	102
Montana	24	10	14	7	13	*	16	*	0	49
Nebraska	34	9	11	21	27	*	28	8	0	77

Table 23 - Continued
Providers of Connections by Technology by State as of June 30, 2011
(Connections over 200 kbps in at least one direction)

<i>State</i>	<i>ADSL</i>	<i>SDSL</i>	<i>Other Wireline</i>	<i>Cable Modem</i>	<i>Fiber</i>	<i>Satellite</i>	<i>Fixed Wireless</i>	<i>Mobile Wireless</i>	<i>Power Line and Other</i>	<i>Total</i>
Nevada	17	9	20	5	17	*	7	7	0	50
New Hampshire	13	8	17	6	11	*	4	6	0	41
New Jersey	20	12	37	6	13	*	5	6	0	56
New Mexico	23	8	16	8	11	*	15	10	0	53
New York	44	16	39	19	26	*	16	6	*	98
North Carolina	26	9	29	24	28	*	9	9	*	78
North Dakota	32	10	15	7	18	*	15	4	0	49
Northern Mariana Isl	*	0	*	*	*	0	*	*	0	*
Ohio	41	17	31	29	33	*	24	8	*	106
Oklahoma	40	7	22	14	16	*	14	11	0	79
Oregon	40	14	29	16	33	*	20	6	0	84
Pennsylvania	36	12	38	25	24	*	11	7	*	93
Puerto Rico	*	*	6	*	*	*	*	5	0	15
Rhode Island	6	4	11	4	6	*	*	5	0	24
South Carolina	21	5	20	16	18	*	5	8	*	52
South Dakota	30	6	12	7	20	*	20	5	0	56
Tennessee	25	13	22	16	23	*	13	7	0	76
Texas	70	24	54	33	46	*	57	10	0	165
Utah	17	9	20	8	17	*	13	7	0	51
Vermont	10	5	14	6	8	*	*	4	0	34
Virgin Islands	*	0	*	0	0	*	*	*	0	7
Virginia	28	15	31	15	21	*	16	8	*	77
Washington	30	9	28	16	29	*	24	7	0	83
West Virginia	8	*	18	12	9	*	4	8	0	44
Wisconsin	49	17	25	19	27	*	25	8	*	98
Wyoming	12	6	7	4	6	*	11	6	0	35
Total	866	252	262	401	577	5	668	64	4	1,620

* Indicates one to three providers.

Source: FCC Form 477, Part I.

Table 24
Percentage of Residential End-User Premises with Access to Services
over 200 kbps in at Least One Direction by State as of June 30, 2011

<i>State</i>	<i>xDSL Availability Where ILECs Offer Local Telephone Service</i>	<i>Cable Modem Availability Where Cable Systems Offer Cable TV Service</i>
Alabama	82	94
Alaska	76	*
American Samoa	*	*
Arizona	90	99
Arkansas	81	83
California	88	99
Colorado	*	98
Connecticut	*	100
Delaware	*	99
District of Columbia	*	*
Florida	89	97
Georgia	94	94
Guam	*	*
Hawaii	*	*
Idaho	87	98
Illinois	88	97
Indiana	87	97
Iowa	85	93
Kansas	87	92
Kentucky	88	93
Louisiana	85	94
Maine	85	96
Maryland	*	99
Massachusetts	*	100
Michigan	79	98
Minnesota	91	97
Mississippi	80	91
Missouri	85	96
Montana	84	94
Nebraska	87	95
Nevada	93	*
New Hampshire	87	98
New Jersey	80	100
New Mexico	88	93
New York	76	100
North Carolina	94	95
North Dakota	90	92
Northern Mariana Isl	*	*
Ohio	88	95
Oklahoma	83	93
Oregon	91	98
Pennsylvania	75	97
Puerto Rico	*	*
Rhode Island	*	*
South Carolina	90	95
South Dakota	82	88
Tennessee	85	98
Texas	83	98
Utah	95	94
Vermont	91	71
Virgin Islands	*	0
Virginia	67	96
Washington	89	97
West Virginia	*	93
Wisconsin	87	98
Wyoming	83	93
Total	84	97

* = Data withheld to maintain firm confidentiality.

Note: This table summarizes responses to Form 477 questions about service availability, as opposed to subscribership. xDSL includes both asymmetric and symmetric DSL. Each state-specific estimate is a weighted average of the availability percentages that ILECs or cable system operators report for the areas they serve. Reported xDSL availability is weighted by ILEC end-user switched access lines and VoIP lines. Reported cable modem availability is weighted by cable TV subscribers. The weighted averages include ILECs or cable system operators that report no availability. Figures are presented to the nearest percent.

Source: FCC Form 477, Parts I and II; Warren Communications News, Inc., Television & Cable Factbook: Online (Cable General Information, February 2010).

Detailed Summary Statistics: Counties and Census Tracts

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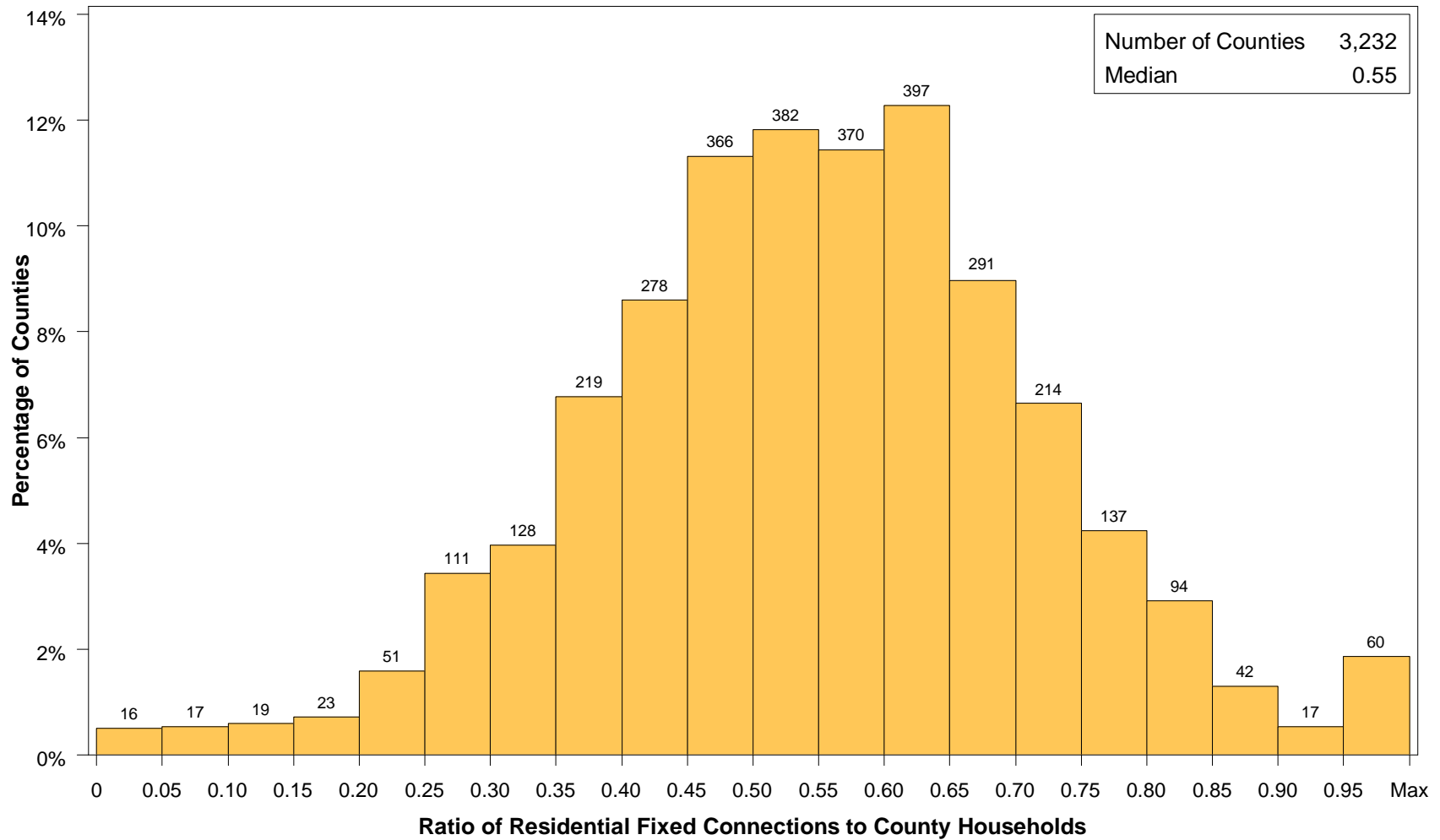
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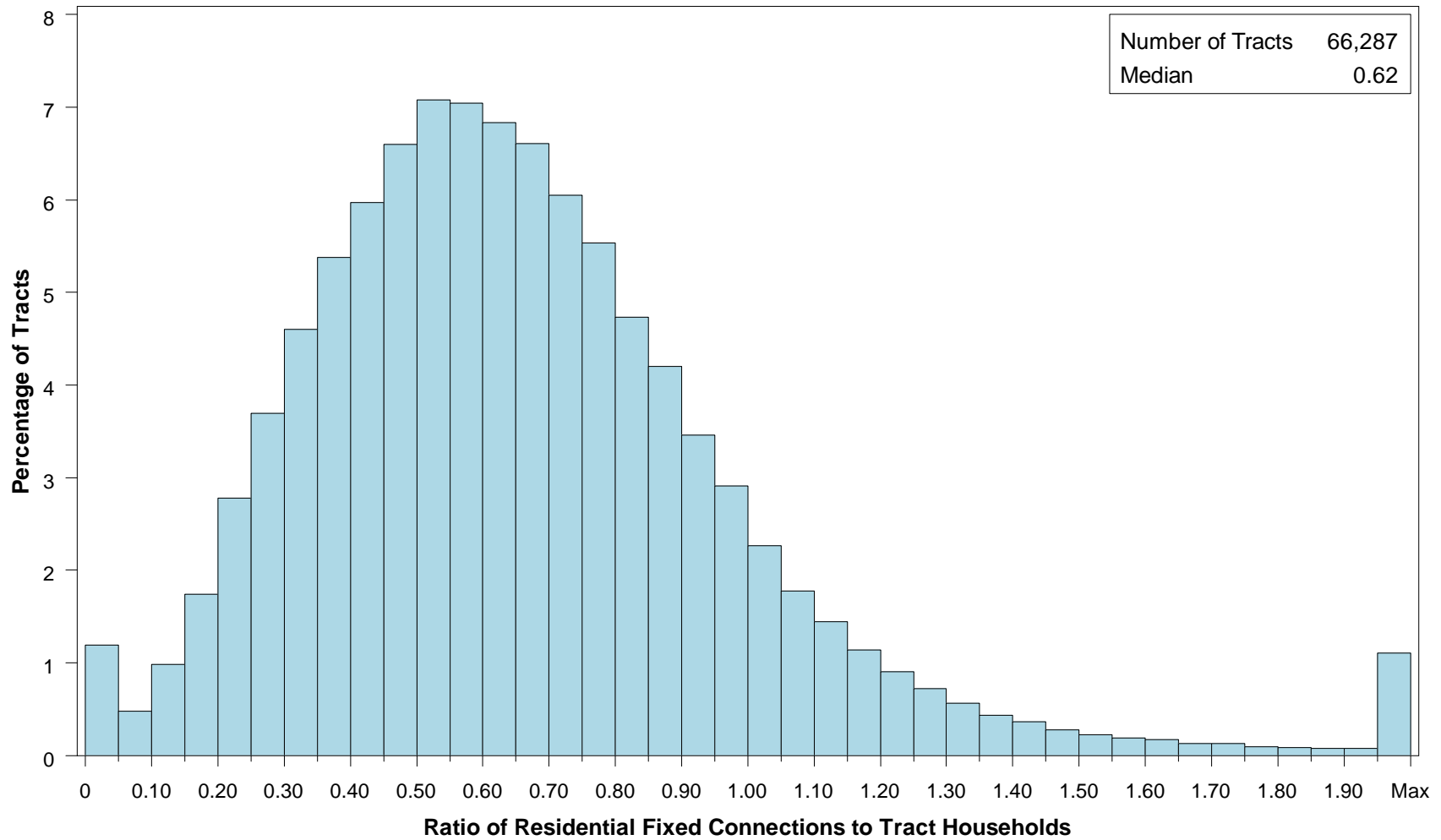
Note: Ratios over 1 were set to 1. See Technical Notes at the end of the report.
 Sources: FCC Form 477, Part VI; Geolytics 2010 Block-Level Estimates; and Census 2000.

Table 25
Distribution of Counties by Ratio of Residential Fixed Connections over 200 kbps in at Least One Direction to County Households by Technology as of June 30, 2011

<i>Technology</i>	<i>Ratio of Residential Fixed Connections to County Households</i>										
	<i>Zero</i>	<i>Greater than 0 and no more than 5%</i>	<i>Greater than 5 and no more than 10%</i>	<i>Greater than 10 and no more than 20%</i>	<i>Greater than 20 and no more than 30%</i>	<i>Greater than 30 and no more than 40%</i>	<i>Greater than 40 and no more than 50%</i>	<i>Greater than 50 and no more than 60%</i>	<i>Greater than 60 and no more than 80%</i>	<i>Greater than 80 and no more than 100%</i>	<i>100% or more</i>
aDSL	0.7	2.4	5.1	26.7	29.0	20.7	9.5	3.5	1.6	0.4	0.3
sDSL	83.1	15.8	0.7	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Other Wireline	95.3	4.5	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Cable Modem	13.8	9.3	10.2	18.4	18.0	14.1	9.6	4.5	1.9	0.2	0.1
FTTP	61.9	27.6	3.6	2.9	2.0	0.9	0.7	0.2	0.2	0.0	0.0
Satellite	0.7	83.7	12.7	2.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Fixed Wireless	48.1	40.9	6.6	3.5	0.6	0.2	0.1	0.1	0.0	0.0	0.0
Power Line	99.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All Other	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.1	0.4	0.5	1.3	5.0	10.7	19.9	23.3	32.1	5.3	1.3

Note: Figures may not sum to totals due to rounding. See Technical Notes at the end of the report.
Sources: FCC Form 477, Part VI; Geolytics 2010 Block-Level Estimates; and Census 2000.

Chart 16
Distribution of Census Tracts by Ratio of Residential Fixed Connections over 200 kbps in at Least One Direction to Tract Households as of June 30, 2011



Note: Ratios over 2 were set to 2. See Technical Notes at the end of the report.
 Sources: FCC Form 477, Part VI; Geolytics 2010 Block-Level Estimates; and Census 2000.

Table 26
Distribution of Census Tracts by Ratio of Residential Fixed Connections over 200 kbps in at Least One Direction to Tract Households by Technology as of June 30, 2011

<i>Technology</i>	<i>Ratio of Residential Fixed Connections to Tract Households</i>										
	<i>Zero</i>	<i>Greater than 0 and no more than 5%</i>	<i>Greater than 5 and no more than 10%</i>	<i>Greater than 10 and no more than 20%</i>	<i>Greater than 20 and no more than 30%</i>	<i>Greater than 30 and no more than 40%</i>	<i>Greater than 40 and no more than 50%</i>	<i>Greater than 50 and no more than 60%</i>	<i>Greater than 60 and no more than 80%</i>	<i>Greater than 80 and no more than 100%</i>	<i>100% or more</i>
aDSL	4.9	9.9	10.4	25.1	20.6	13.7	7.7	3.6	2.6	0.7	0.8
sDSL	95.7	4.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Wireline	99.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cable Modem	6.2	3.8	3.8	12.4	16.6	16.7	14.6	10.8	10.1	2.9	2.1
FTTP	79.8	7.9	1.7	2.7	2.1	1.7	1.3	1.0	1.2	0.3	0.3
Satellite	46.5	47.9	3.9	1.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0
Fixed Wireless	84.6	12.2	1.7	1.1	0.3	0.1	0.0	0.0	0.0	0.0	0.0
Power Line	99.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All Other	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.8	0.4	0.5	2.7	6.5	10.0	12.6	14.1	25.0	15.3	12.1

Note: Figures may not sum to totals due to rounding. See Technical Notes at the end of the report.
Sources: FCC Form 477, Part VI; Geolytics 2010 Block-Level Estimates; and Census 2000.

Table 27
Percentage of Census Tracts with Residential Fixed Connections by Technology as of June 30, 2011
 (Connections over 200 kbps in at least one direction)

<i>Technology</i>	<i>Number of Providers</i>							
	<i>Zero</i>	<i>One</i>	<i>Two</i>	<i>Three</i>	<i>Four</i>	<i>Five</i>	<i>Six</i>	<i>Seven or More</i>
aDSL	4.9	46.1	35.2	11.6	1.9	0.3	0.0	0.0
sDSL	95.7	4.0	0.2	0.0	0.0	0.0	0.0	0.0
Other Wireline	99.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
Cable Modem	6.2	80.7	12.4	0.7	0.0	0.0	0.0	0.0
FTTP	79.8	19.6	0.6	0.1	0.0	0.0	0.0	0.0
Satellite	46.5	21.8	28.1	3.6	0.0	0.0	0.0	0.0
Fixed Wireless	84.6	12.0	2.8	0.6	0.1	0.0	0.0	0.0
Power Line	99.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0
aDSL and/or Cable Modem and/or FTTP	1.1	6.2	39.4	34.5	14.8	3.4	0.6	0.1
Any Technology	0.8	2.6	17.8	25.5	25.0	15.9	7.6	4.8

Note: Figures may not sum to totals due to rounding.
 Sources: FCC Form 477, Part VI and Census 2000.

Table 28
Distribution of Counties by Ratio of Residential Fixed Connections to County Households by State as of June 30, 2011
(Connections over 200 kbps in at least one direction)

State	Counties	Ratio of Residential Fixed Connections over 200 kbps in at Least One Direction to County Households										
		Zero	Greater than 0 and no more than 5%	Greater than 5 and no more than 10%	Greater than 10 and no more than 20%	Greater than 20 and no more than 30%	Greater than 30 and no more than 40%	Greater than 40 and no more than 50%	Greater than 50 and no more than 60%	Greater than 60 and no more than 80%	Greater than 80 and no more than 100%	100% or more
Alabama	67	0	0	0	2	5	12	25	13	9	1	0
Alaska	27	0	0	0	3	1	2	4	4	11	2	0
American Samoa	5	3	0	0	1	1	0	0	0	0	0	0
Arizona	15	0	0	0	0	0	2	0	5	8	0	0
Arkansas	75	0	0	0	0	2	24	32	11	6	0	0
California	58	0	0	0	1	0	0	6	12	30	7	2
Colorado	64	0	0	0	0	1	2	6	19	22	10	4
Connecticut	8	0	0	0	0	0	0	0	0	3	5	0
Delaware	3	0	0	0	0	0	0	0	0	2	1	0
District of Columbia	1	0	0	0	0	0	0	0	0	1	0	0
Florida	67	0	0	0	0	2	2	14	7	36	5	1
Georgia	159	0	11	9	11	14	14	25	19	34	18	4
Guam	1	0	0	0	0	0	0	0	0	0	0	1
Hawaii	5	0	1	0	0	0	0	0	0	2	2	0
Idaho	44	0	0	0	2	1	3	9	11	18	0	0
Illinois	102	0	0	0	1	3	12	24	25	31	3	3
Indiana	92	0	0	0	0	0	10	27	29	23	2	1
Iowa	99	0	0	0	0	0	0	7	45	46	1	0
Kansas	105	0	0	0	0	0	4	17	40	40	4	0
Kentucky	120	0	0	0	1	9	16	31	34	29	0	0
Louisiana	64	0	0	0	0	6	12	15	15	15	1	0
Maine	16	0	0	0	0	0	0	0	2	11	3	0
Maryland	24	0	0	0	0	0	1	4	2	11	5	1
Massachusetts	14	0	0	0	0	0	0	0	0	8	3	3
Michigan	83	0	0	0	1	5	5	18	19	33	1	1
Minnesota	87	0	0	0	0	0	2	9	26	47	3	0
Mississippi	82	0	0	1	4	26	26	14	3	7	0	1
Missouri	115	0	0	1	1	3	16	46	30	16	2	0
Montana	56	0	0	0	0	0	1	10	20	24	1	0
Nebraska	93	0	0	0	0	0	1	24	27	40	1	0

Table 28 - Continued
Distribution of Counties by Ratio of Residential Fixed Connections to County Households by State as of June 30, 2011
(Connections over 200 kbps in at least one direction)

State	Counties	Ratio of Residential Fixed Connections over 200 kbps in at Least One Direction to County Households										
		Zero	Greater than 0 and no more than 5%	Greater than 5 and no more than 10%	Greater than 10 and no more than 20%	Greater than 20 and no more than 30%	Greater than 30 and no more than 40%	Greater than 40 and no more than 50%	Greater than 50 and no more than 60%	Greater than 60 and no more than 80%	Greater than 80 and no more than 100%	100% or more
Nevada	17	0	0	0	1	0	4	3	2	7	0	0
New Hampshire	10	0	0	0	0	0	0	0	1	6	3	0
New Jersey	21	0	0	0	0	0	0	0	1	8	11	1
New Mexico	33	0	0	0	0	3	6	7	7	9	1	0
New York	62	0	0	0	0	0	0	0	6	41	11	4
North Carolina	100	0	0	0	0	0	2	25	36	28	6	3
North Dakota	53	0	0	0	0	0	3	2	13	31	2	2
Northern Mariana Isl	4	1	0	0	1	2	0	0	0	0	0	0
Ohio	88	0	0	0	0	0	5	13	20	47	2	1
Oklahoma	77	0	0	0	0	9	18	22	17	10	0	1
Oregon	36	0	0	0	0	0	1	7	13	15	0	0
Pennsylvania	67	0	0	0	0	0	4	3	12	36	8	4
Puerto Rico	78	0	0	0	2	18	26	27	1	4	0	0
Rhode Island	5	0	0	0	0	0	0	0	0	1	3	1
South Carolina	46	0	0	0	0	4	10	7	14	9	2	0
South Dakota	66	0	0	0	1	2	3	12	21	24	3	0
Tennessee	95	0	0	0	1	8	20	31	26	8	1	0
Texas	254	0	0	2	1	21	46	64	59	51	7	3
Utah	29	0	0	0	0	0	2	1	8	14	4	0
Vermont	14	0	0	0	0	0	0	1	2	8	3	0
Virgin Islands	3	0	0	0	0	1	1	0	1	0	0	0
Virginia	134	0	0	3	7	12	18	24	30	26	14	0
Washington	39	0	0	0	0	2	3	3	5	23	3	0
West Virginia	55	0	0	0	0	1	6	16	20	12	0	0
Wisconsin	72	0	0	1	0	0	1	5	14	46	5	0
Wyoming	23	0	0	0	0	0	1	4	6	11	1	0
Total	3,232	4	12	17	42	162	347	644	753	1038	171	42

Note: Figures may not sum to totals due to rounding. See Technical Notes at the end of the report.

Sources: FCC Form 477, Part VI (Connections); Geolytics 2010 Block-Level Estimates (Households for U.S. and District of Columbia); Census 2000 (Households for Puerto Rico, American Samoa, Guam, Northern Mariana Islands and U.S. Virgin Islands).

Table 29
Distribution of Census Tracts by Ratio of Residential Fixed Connections to Tract Households by State as of June 30, 2011
(Connections over 200 kbps in at least one direction)

State	Tracts	Ratio of Residential Fixed Connections over 200 kbps in at Least One Direction to Tract Households										
		Zero	Greater than 0 and no more than 5%	Greater than 5 and no more than 10%	Greater than 10 and no more than 20%	Greater than 20 and no more than 30%	Greater than 30 and no more than 40%	Greater than 40 and no more than 50%	Greater than 50 and no more than 60%	Greater than 60 and no more than 80%	Greater than 80 and no more than 100%	100% or more
Alabama	1,081	0	5	4	54	122	208	192	143	198	93	62
Alaska	158	2	0	2	9	7	5	15	15	53	36	14
American Samoa	21	5	10	1	1	1	0	0	1	1	0	1
Arizona	1,107	15	10	16	53	85	109	144	166	254	127	128
Arkansas	624	1	2	6	33	94	124	120	96	82	38	28
California	7,049	41	15	13	115	248	431	743	895	2,026	1,515	1,007
Colorado	1,075	15	1	0	8	36	70	129	167	296	181	172
Connecticut	815	3	0	0	0	17	30	52	76	234	295	108
Delaware	197	1	0	1	6	17	19	24	20	29	26	54
District of Columbia	188	7	1	1	0	5	12	23	17	70	26	26
Florida	3,153	9	5	5	33	123	270	401	449	807	504	547
Georgia	1,618	11	56	27	83	156	184	198	191	313	197	202
Guam	56	9	0	0	1	2	3	1	2	7	7	24
Hawaii	286	7	1	0	1	5	2	13	30	112	76	39
Idaho	280	1	3	1	6	12	41	59	50	58	23	26
Illinois	2,964	16	7	9	53	181	344	379	425	862	429	259
Indiana	1,412	3	5	3	26	86	202	242	254	359	139	93
Iowa	793	2	1	0	2	15	45	120	199	306	70	33
Kansas	727	7	2	0	6	23	73	120	132	220	78	66
Kentucky	994	2	4	4	30	79	128	183	190	229	88	57
Louisiana	1,106	6	3	5	38	133	164	186	155	258	111	47
Maine	344	0	0	0	0	3	10	27	42	156	72	34
Maryland	1,216	6	3	5	49	81	90	94	115	289	236	248
Massachusetts	1,361	5	0	1	8	71	111	110	118	285	374	278
Michigan	2,716	16	5	7	108	211	254	305	365	737	459	249
Minnesota	1,300	6	1	3	8	33	80	154	242	437	214	122
Mississippi	605	0	0	7	43	132	150	88	63	75	25	22
Missouri	1,320	10	3	9	43	125	176	201	230	284	153	86
Montana	270	6	4	1	6	6	22	36	55	95	20	19
Nebraska	503	3	2	0	2	12	43	86	103	151	53	48

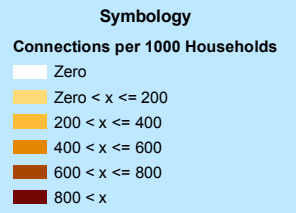
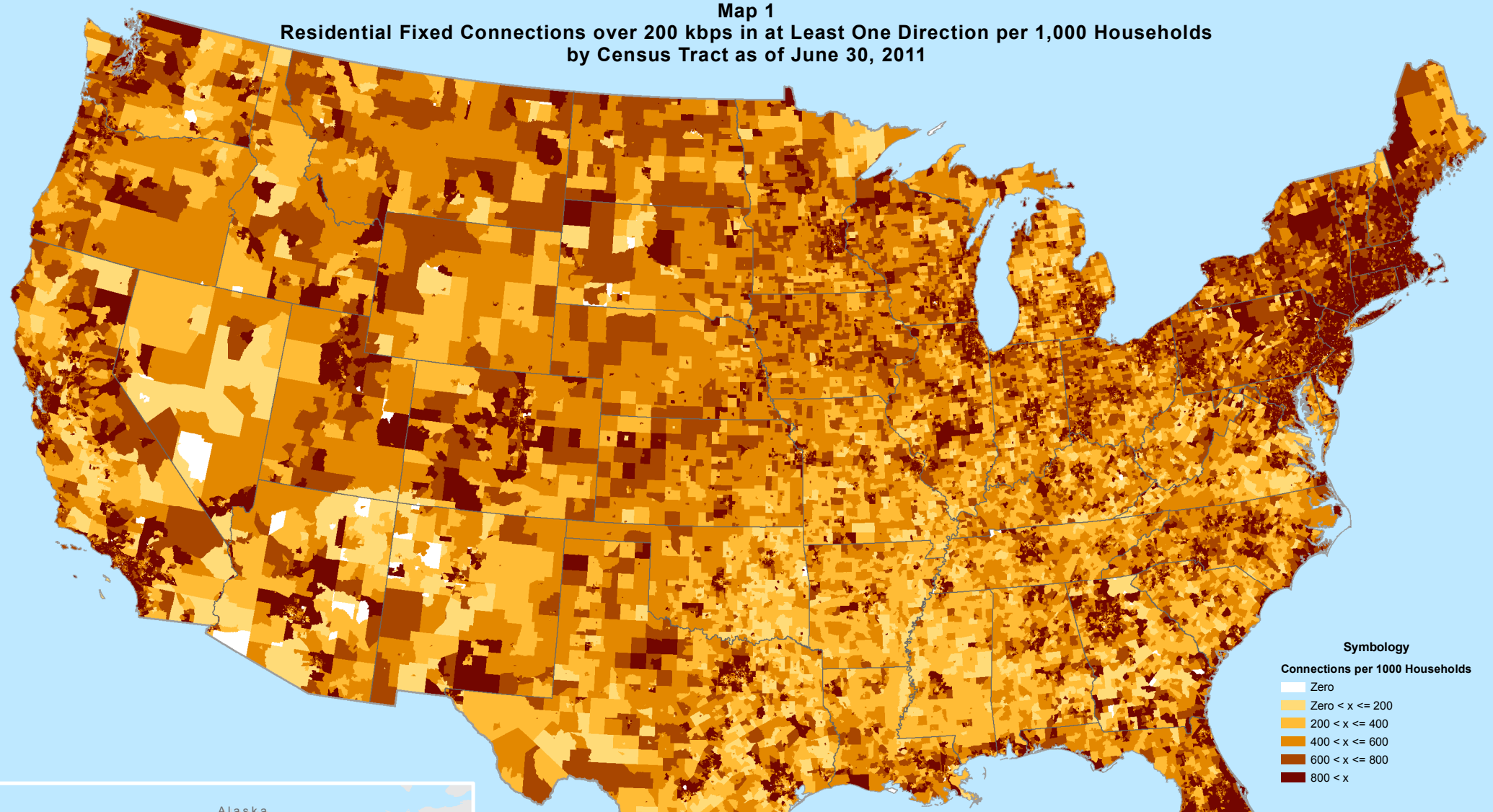
Table 29 - Continued
Distribution of Census Tracts by Ratio of Residential Fixed Connections to Tract Households by State as of June 30, 2011
(Connections over 200 kbps in at least one direction)

State	Tracts	Ratio of Residential Fixed Connections over 200 kbps in at Least One Direction to Tract Households										100% or more
		Zero	Greater than 0 and no more than 5%	Greater than 5 and no more than 10%	Greater than 10 and no more than 20%	Greater than 20 and no more than 30%	Greater than 30 and no more than 40%	Greater than 40 and no more than 50%	Greater than 50 and no more than 60%	Greater than 60 and no more than 80%	Greater than 80 and no more than 100%	
Nevada	487	9	3	9	27	45	71	66	51	91	57	58
New Hampshire	272	0	0	0	1	0	6	12	24	105	78	46
New Jersey	1,944	14	2	2	32	79	116	139	183	405	476	496
New Mexico	456	18	10	6	17	34	53	76	61	96	40	45
New York	4,898	98	3	8	41	230	433	640	711	1,063	803	868
North Carolina	1,555	2	2	3	34	81	198	258	270	350	183	174
North Dakota	227	6	0	1	1	9	13	31	25	102	29	10
Northern Mariana Isl	21	1	2	0	8	4	3	1	0	2	0	0
Ohio	2,934	13	1	6	53	195	279	343	451	887	485	221
Oklahoma	990	5	11	12	53	88	134	190	141	191	94	71
Oregon	755	1	0	1	1	14	47	91	174	254	119	53
Pennsylvania	3,134	34	24	6	113	243	266	256	333	728	597	534
Puerto Rico	823	9	42	39	144	168	117	111	57	61	28	47
Rhode Island	233	0	0	1	3	28	25	17	13	37	43	66
South Carolina	867	4	1	2	43	98	163	133	111	154	73	85
South Dakota	235	16	1	3	9	6	22	36	41	81	16	4
Tennessee	1,261	8	3	13	69	137	224	235	177	226	90	79
Texas	4,388	24	20	45	213	476	657	618	628	801	427	479
Utah	496	7	4	1	7	8	27	49	94	149	77	73
Vermont	179	0	0	0	0	1	6	13	27	73	39	20
Virgin Islands	32	0	0	3	8	6	6	5	2	1	1	0
Virginia	1,530	5	6	18	58	102	136	188	196	350	250	221
Washington	1,318	2	0	1	18	31	76	152	180	440	253	165
West Virginia	466	0	6	8	17	31	48	79	93	119	49	16
Wisconsin	1,320	8	1	1	11	56	88	154	254	474	180	93
Wyoming	127	1	0	0	4	2	9	10	28	55	13	5
Total	66,287	500	291	320	1,810	4,293	6,623	8,348	9,331	16,578	10,165	8,028

Note: Figures may not sum to totals due to rounding. See Technical Notes at the end of the report.

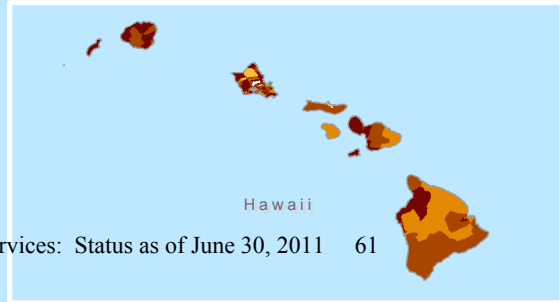
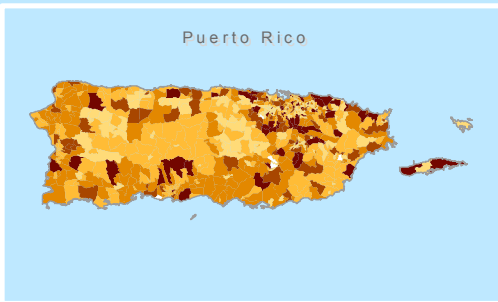
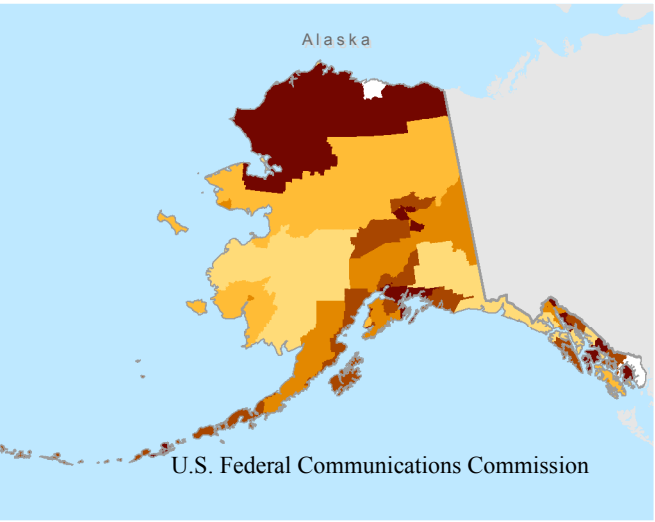
Sources: FCC Form 477, Part VI (Connections); Geolytics 2010 Block-Level Estimates (Households for U.S. and District of Columbia); Census 2000 (Households for Puerto Rico, American Samoa, Guam, Northern Mariana Islands and U.S. Virgin Islands).

Map 1
Residential Fixed Connections over 200 kbps in at Least One Direction per 1,000 Households
by Census Tract as of June 30, 2011

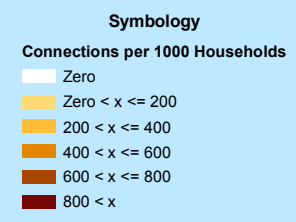
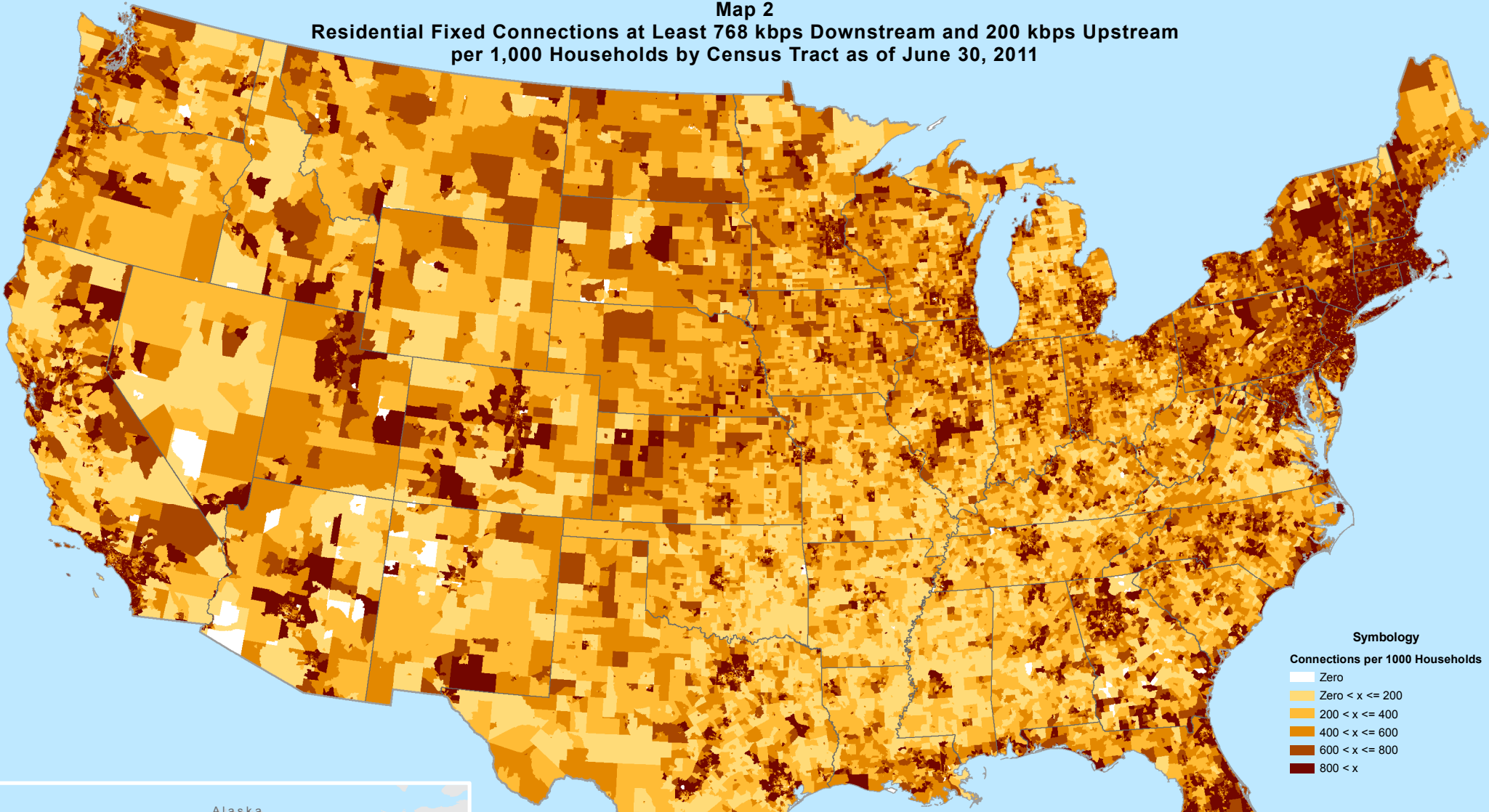


This map shows the number of residential connections per 1,000 households by census tract. Connections have information transfer rates greater than 200 kbps in at least one direction and include all technologies except terrestrial mobile wireless.

Connections data are from FCC Form 477 Part VI. The census tract boundaries are from ESRI. Household counts for tracts in the U.S. are 2010 estimates from Geolytics. Household counts for the territories are from Census 2000. For more information about census tracts please see Census 2000 Summary File 3 Technical Documentation, page A-11.

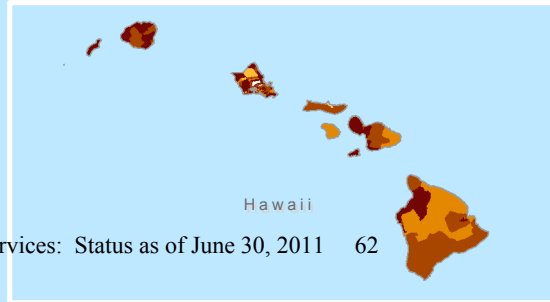
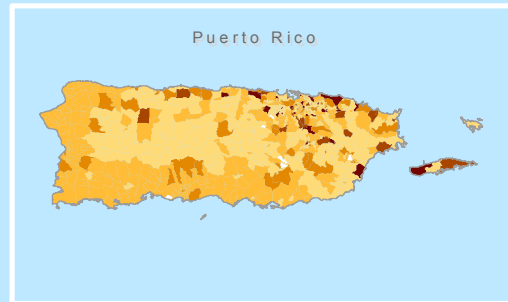
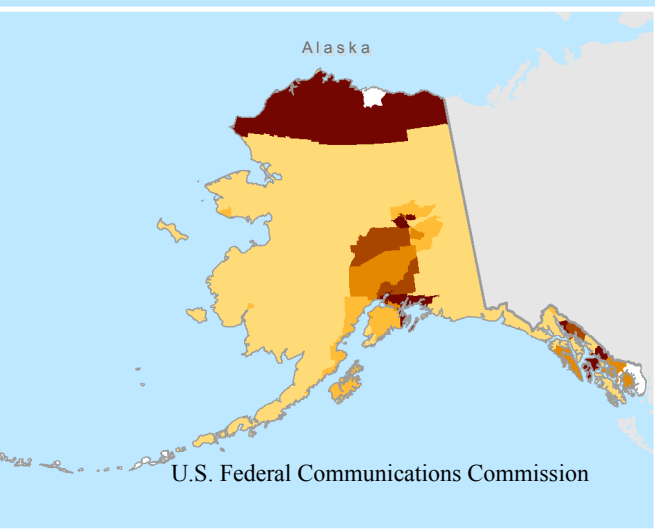


Map 2
Residential Fixed Connections at Least 768 kbps Downstream and 200 kbps Upstream
per 1,000 Households by Census Tract as of June 30, 2011

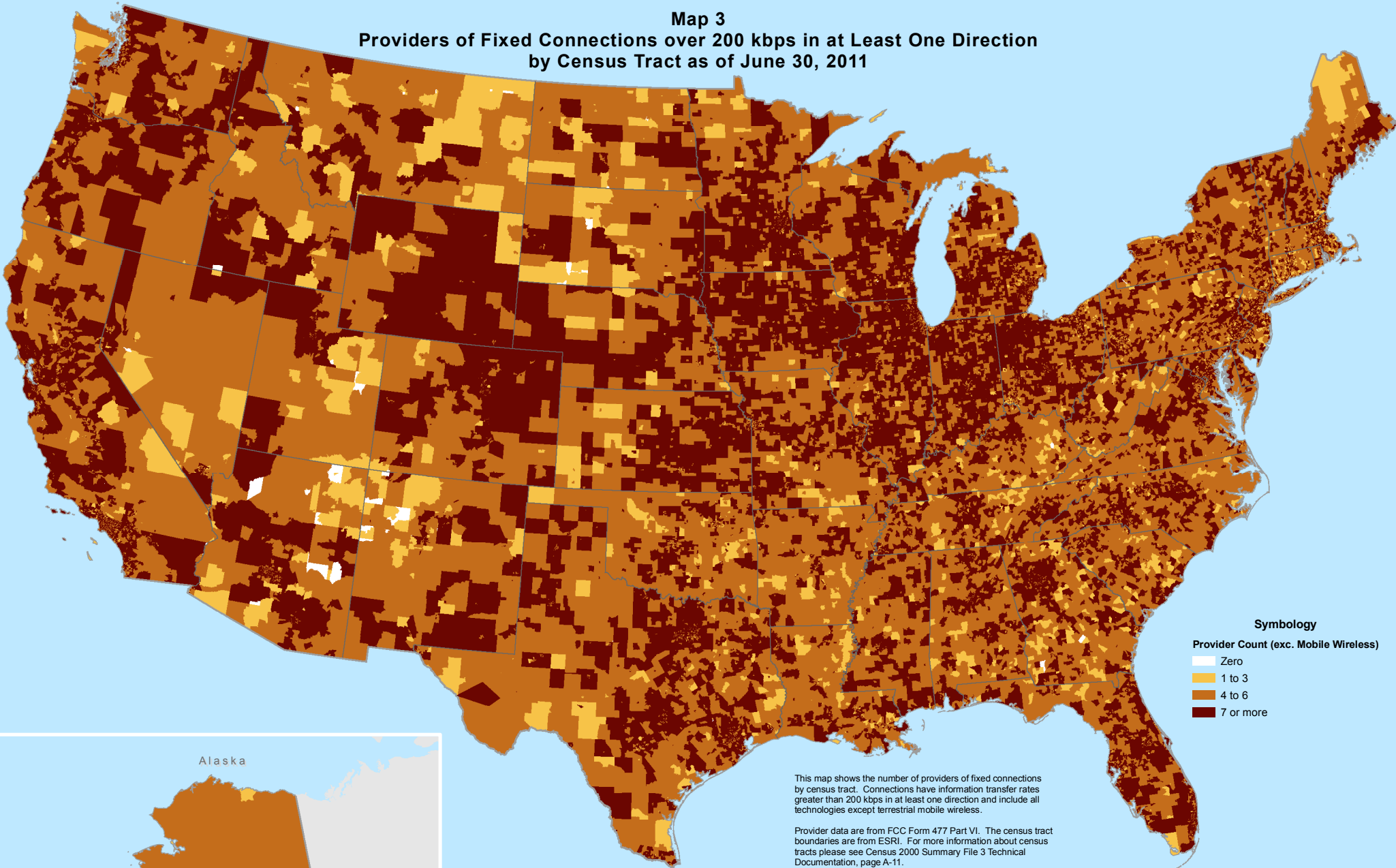


This map shows the number of residential connections per 1,000 households by census tract. Connections have information transfer rates greater than 200 kbps upstream and at least 768 kbps downstream. All technologies except terrestrial mobile wireless are included.

Connections are from FCC Form 477 Part VI. The census tract boundaries are from ESRI. Household counts for tracts in the U.S. are 2010 estimates from Geolytics. Household counts for the territories are from Census 2000. For more information about census tracts please see Census 2000 Summary File 3 Technical Documentation, page A-11.



Map 3
Providers of Fixed Connections over 200 kbps in at Least One Direction
by Census Tract as of June 30, 2011



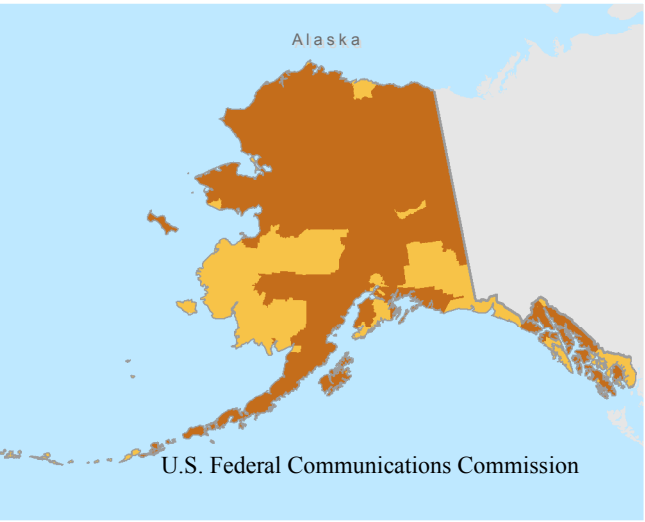
Symbology
Provider Count (exc. Mobile Wireless)

- Zero
- 1 to 3
- 4 to 6
- 7 or more

This map shows the number of providers of fixed connections by census tract. Connections have information transfer rates greater than 200 kbps in at least one direction and include all technologies except terrestrial mobile wireless.

Provider data are from FCC Form 477 Part VI. The census tract boundaries are from ESRI. For more information about census tracts please see Census 2000 Summary File 3 Technical Documentation, page A-11.

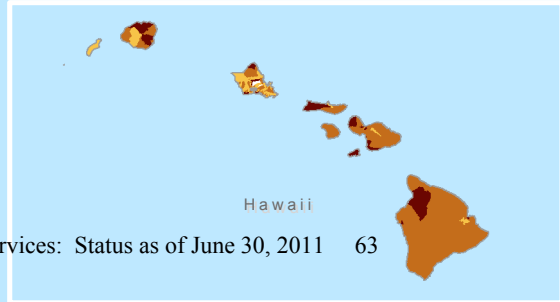
Alaska



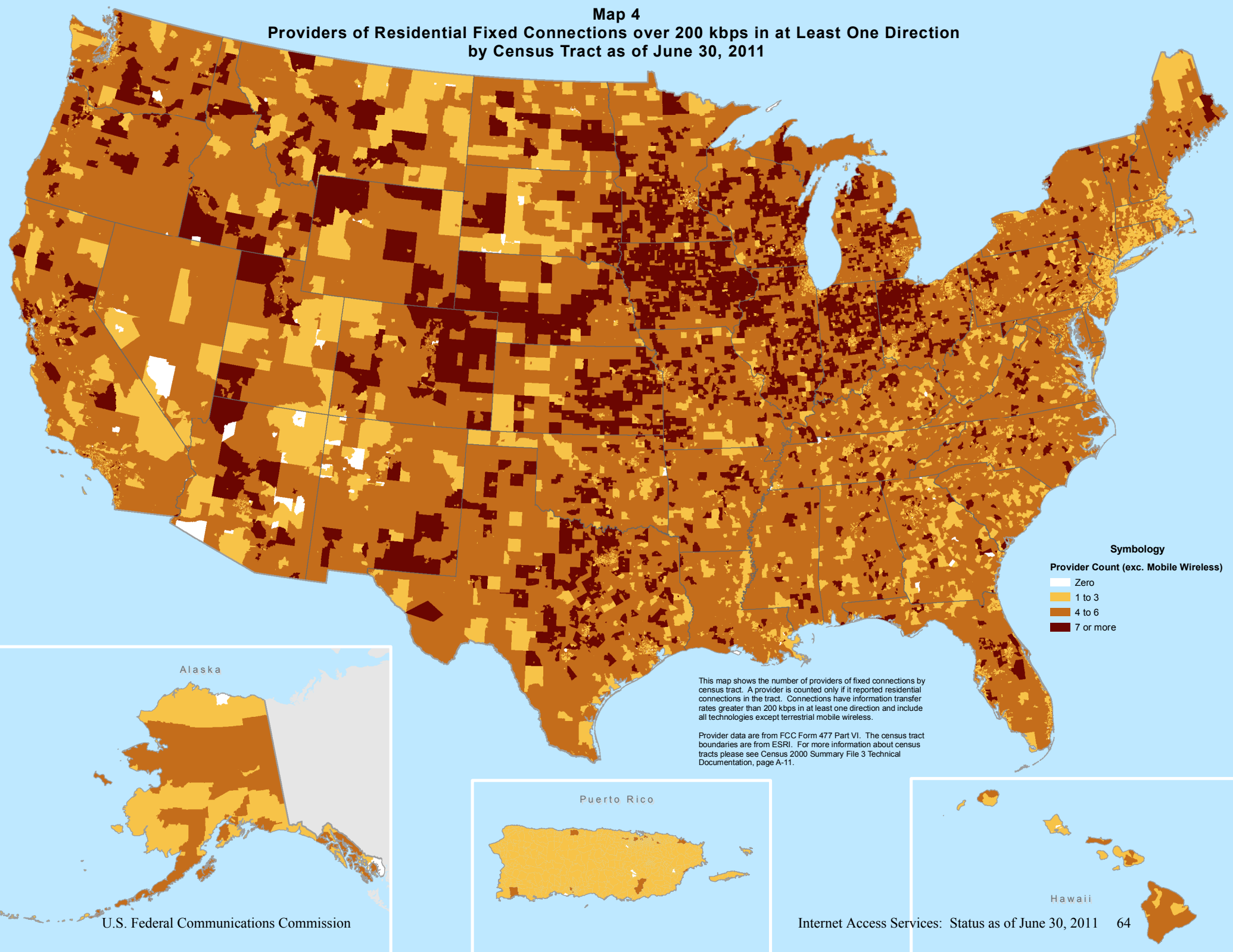
Puerto Rico



Hawaii



Map 4
Providers of Residential Fixed Connections over 200 kbps in at Least One Direction
by Census Tract as of June 30, 2011



Symbology

Provider Count (exc. Mobile Wireless)

- Zero
- 1 to 3
- 4 to 6
- 7 or more

This map shows the number of providers of fixed connections by census tract. A provider is counted only if it reported residential connections in the tract. Connections have information transfer rates greater than 200 kbps in at least one direction and include all technologies except terrestrial mobile wireless.

Provider data are from FCC Form 477 Part VI. The census tract boundaries are from ESRI. For more information about census tracts please see Census 2000 Summary File 3 Technical Documentation, page A-11.

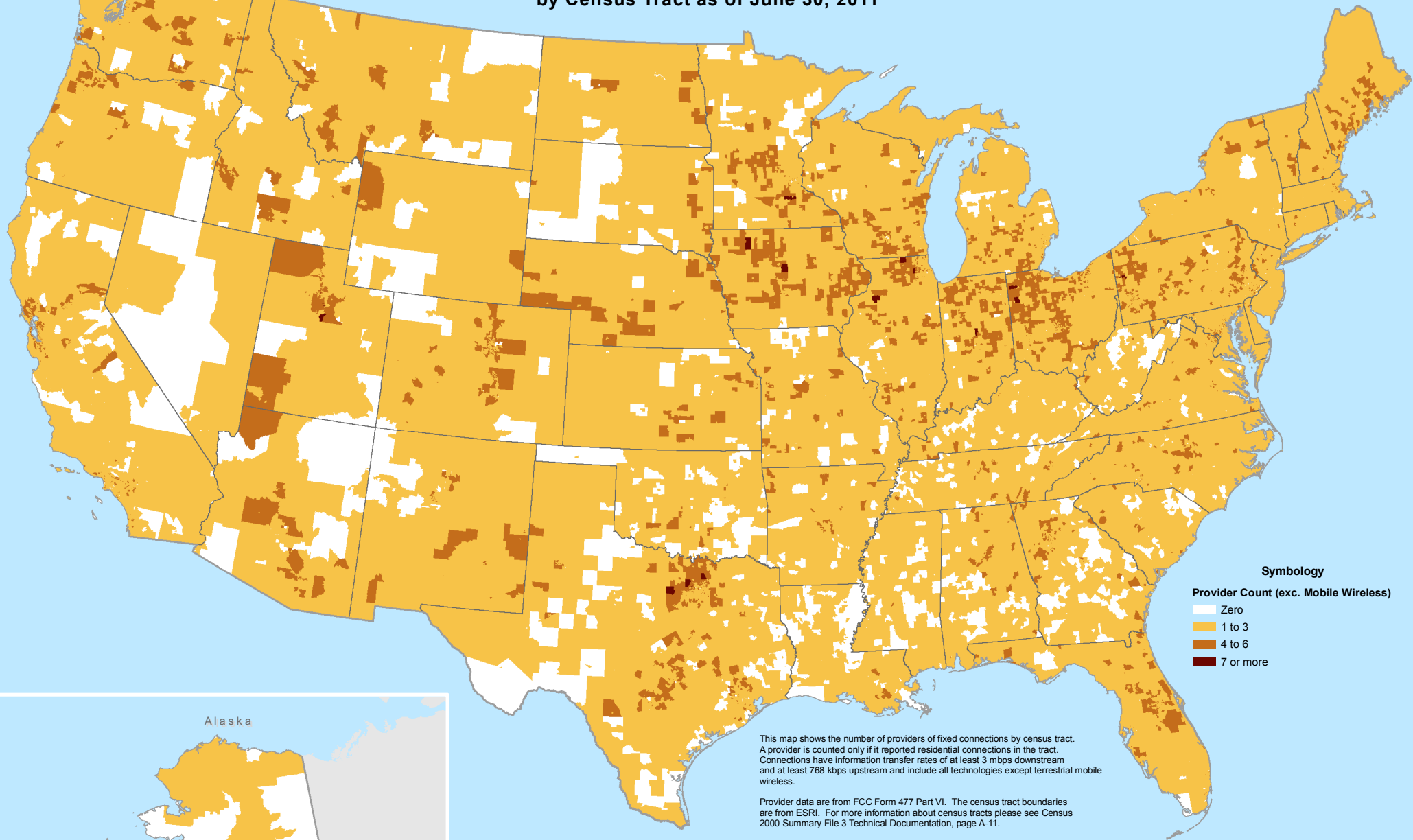
Alaska

U.S. Federal Communications Commission

Puerto Rico

Hawaii

**Map 5
Providers of Residential Fixed Connections at Least 3 mbps Downstream and 768 kbps Upstream
by Census Tract as of June 30, 2011**



Symbology
Provider Count (exc. Mobile Wireless)
 Zero
 1 to 3
 4 to 6
 7 or more

This map shows the number of providers of fixed connections by census tract. A provider is counted only if it reported residential connections in the tract. Connections have information transfer rates of at least 3 mbps downstream and at least 768 kbps upstream and include all technologies except terrestrial mobile wireless.

Provider data are from FCC Form 477 Part VI. The census tract boundaries are from ESRI. For more information about census tracts please see Census 2000 Summary File 3 Technical Documentation, page A-11.

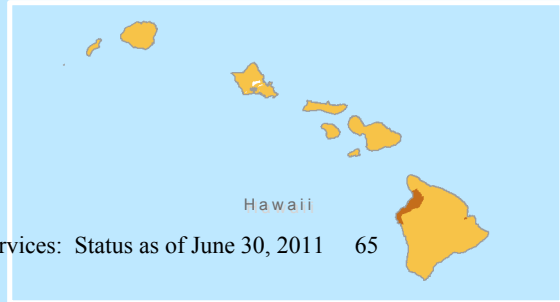
Alaska



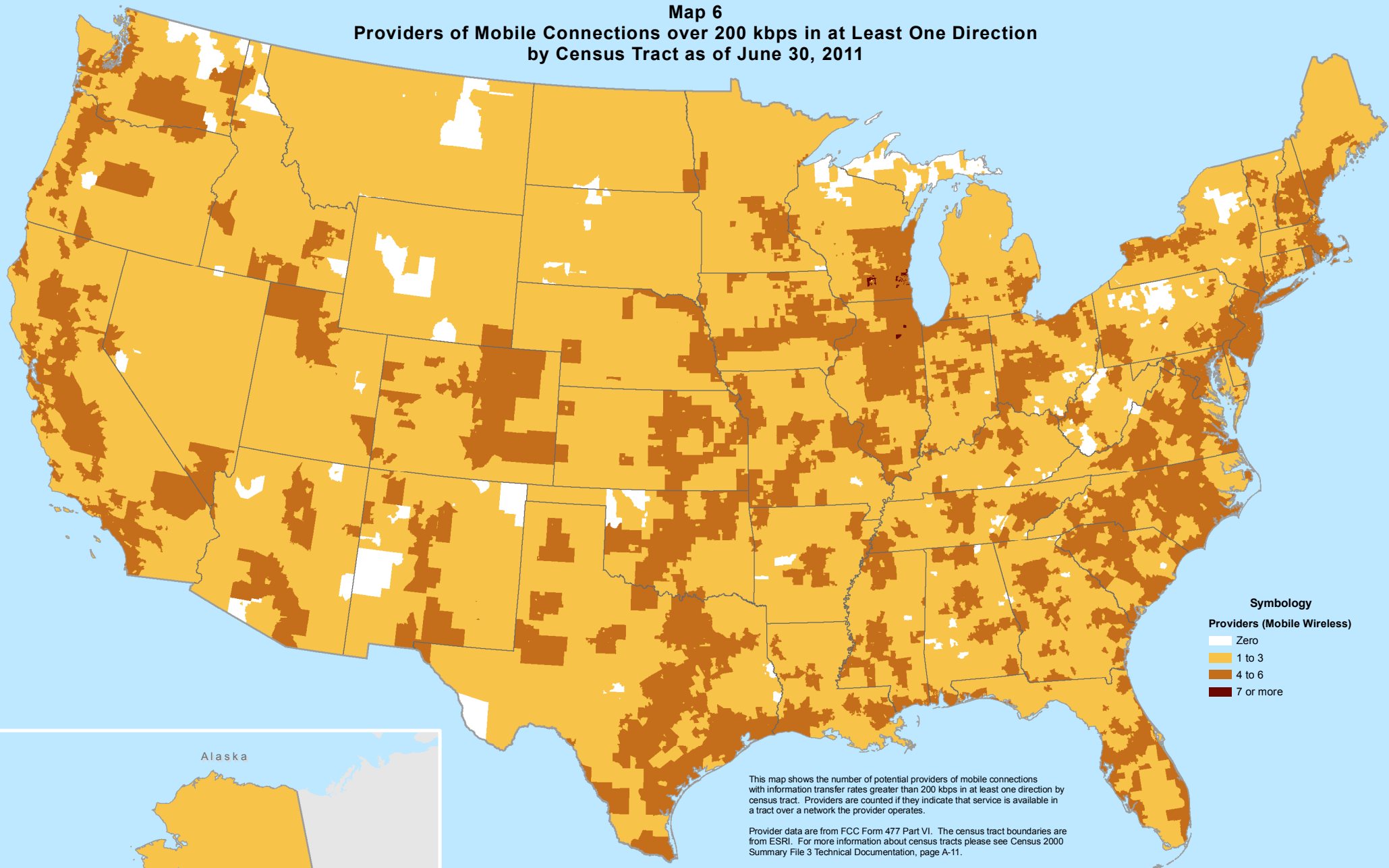
Puerto Rico



Hawaii



Map 6
Providers of Mobile Connections over 200 kbps in at Least One Direction
by Census Tract as of June 30, 2011



Symbology
Providers (Mobile Wireless)
 Zero
 1 to 3
 4 to 6
 7 or more

This map shows the number of potential providers of mobile connections with information transfer rates greater than 200 kbps in at least one direction by census tract. Providers are counted if they indicate that service is available in a tract over a network the provider operates.

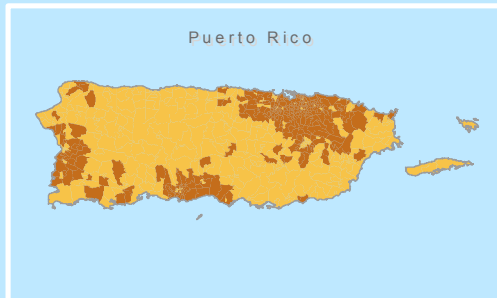
Provider data are from FCC Form 477 Part VI. The census tract boundaries are from ESRI. For more information about census tracts please see Census 2000 Summary File 3 Technical Documentation, page A-11.

Alaska

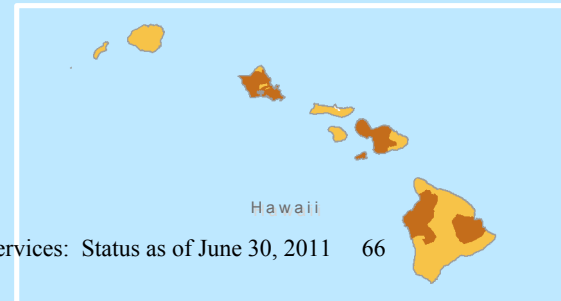


U.S. Federal Communications Commission

Puerto Rico



Hawaii



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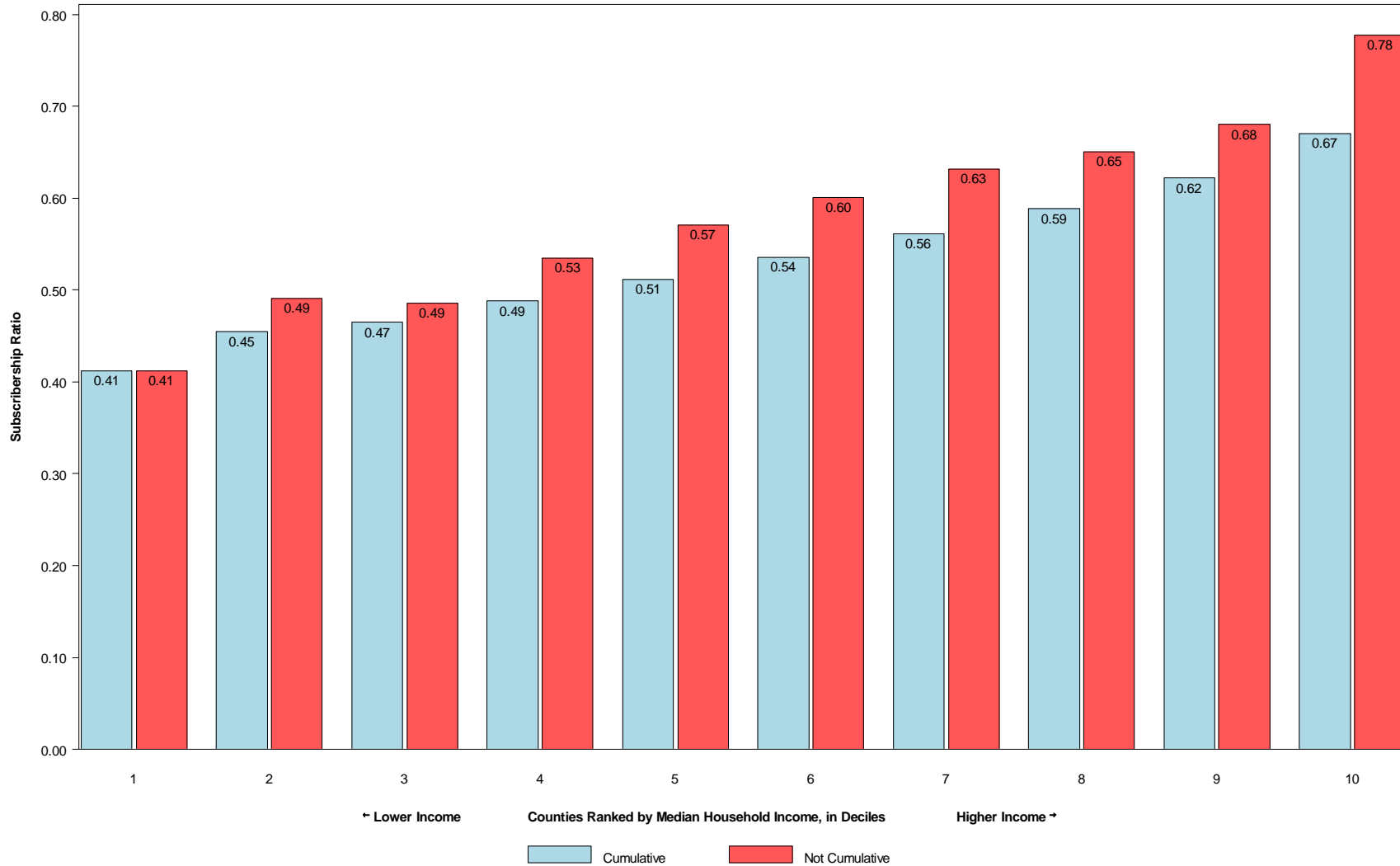
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Income and household density

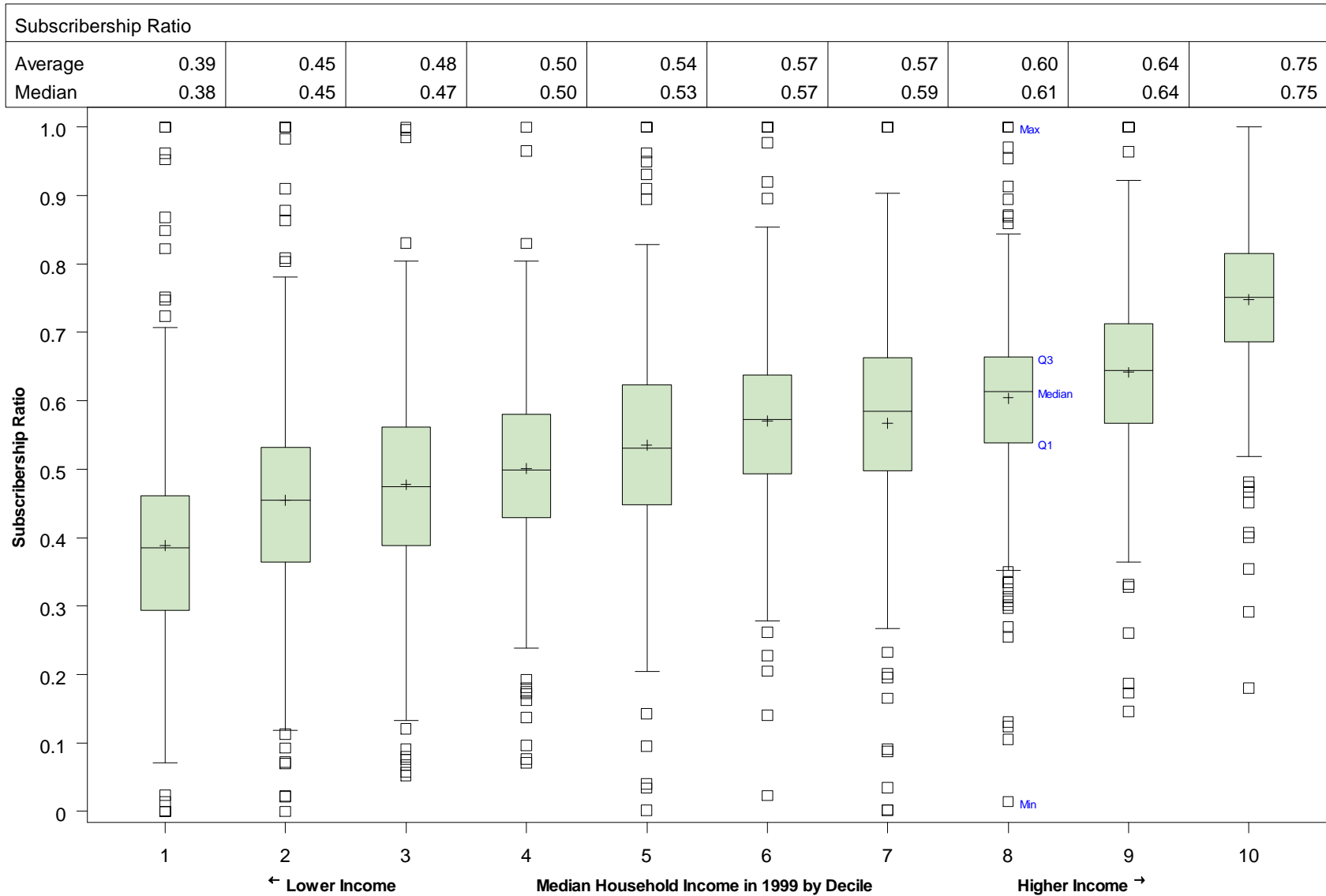
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Ratio of Residential Fixed Connections over 200 kbps in at Least One Direction to Households
by Income Deciles as of June 30, 2011
(County Data)



This chart shows cumulative and non-cumulative subscribership ratios by income deciles. Counties were grouped into income deciles based on county median household income in 1999, as reported by the Census Bureau. For each decile, the height of any red, non-cumulative bar represents the ratio of the sum of residential fixed connections over 200 kbps in at least one direction across counties in the decile to the sum of households across counties in the decile. The height of the blue, cumulative bar for decile N represents the ratio of the sum of residential fixed connections over 200 kbps in at least one direction across all counties in decile N and all deciles less than N to the number of households in all the counties in decile N and deciles less than N.
 Sources: FCC Form 477, Part VI; Geolytics 2010 Block-Level Estimates (Households in 2010); and Census 2000 (Median household income in 1999).

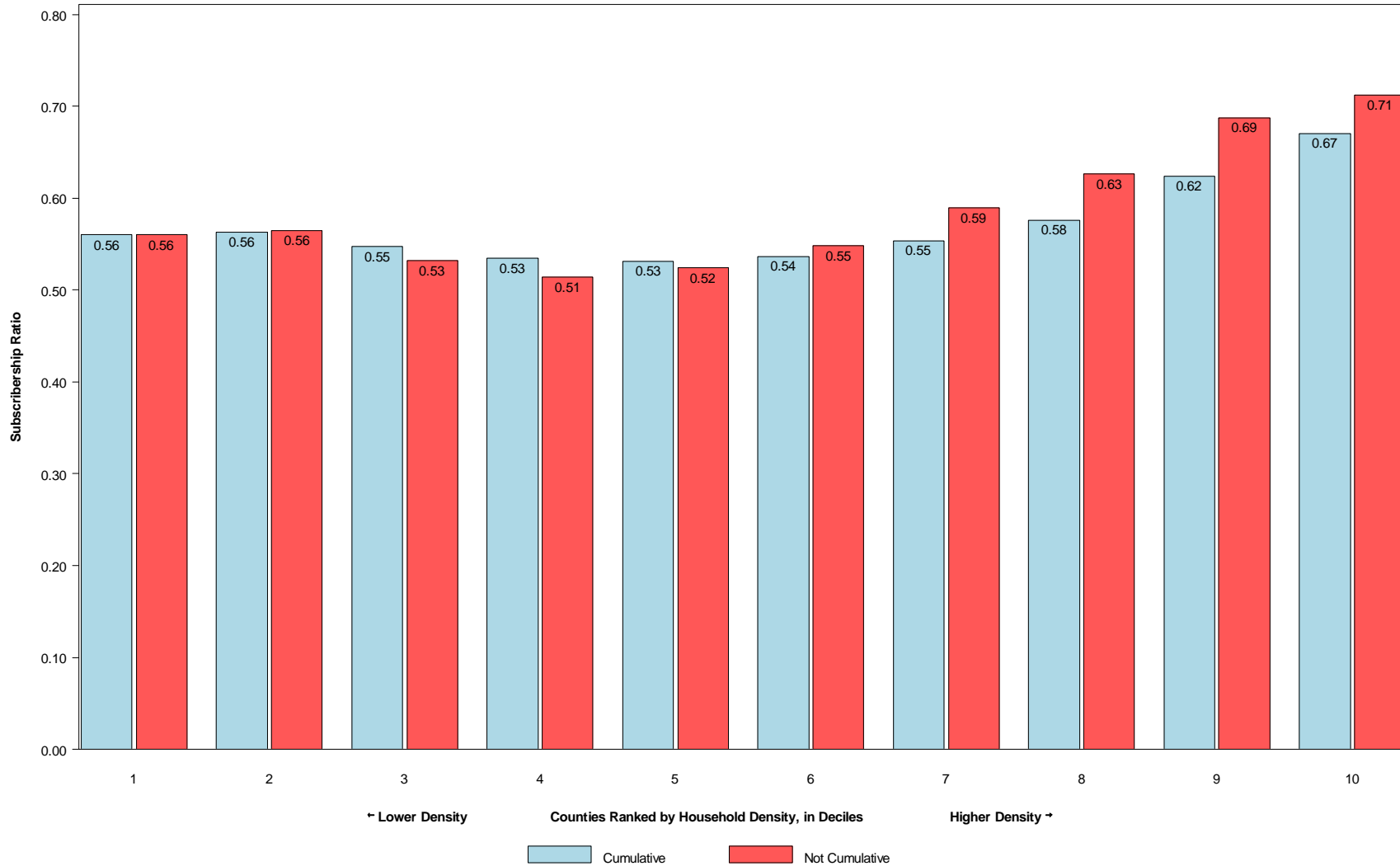
Chart 18
Subscriberhip Ratio Distributions by Income Deciles as of June 30, 2011



Note: Each box plot shows the distribution of residential subscribership to connections over 200 kbps in at least one direction for counties in the income 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; ⊥ 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.

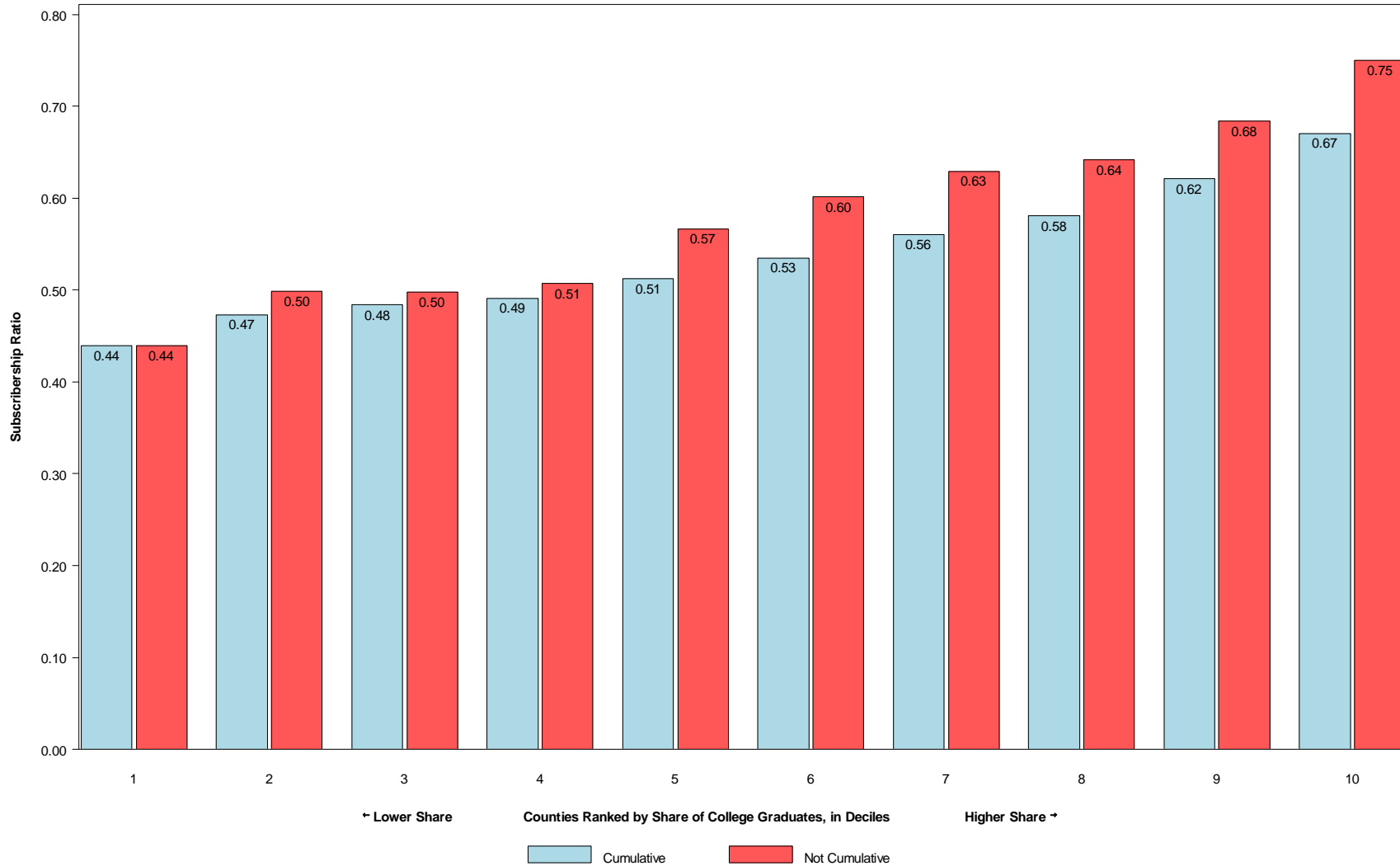
Sources: FCC Form 477, Part VI; Geolytics 2010 Block-Level Estimates (Households in 2010); and Census 2000 (Median household income in 1999).

Chart 19
Ratio of Residential Fixed Connections over 200 kbps in at Least One Direction to Households
by Density Deciles as of June 30, 2011
(County Data)



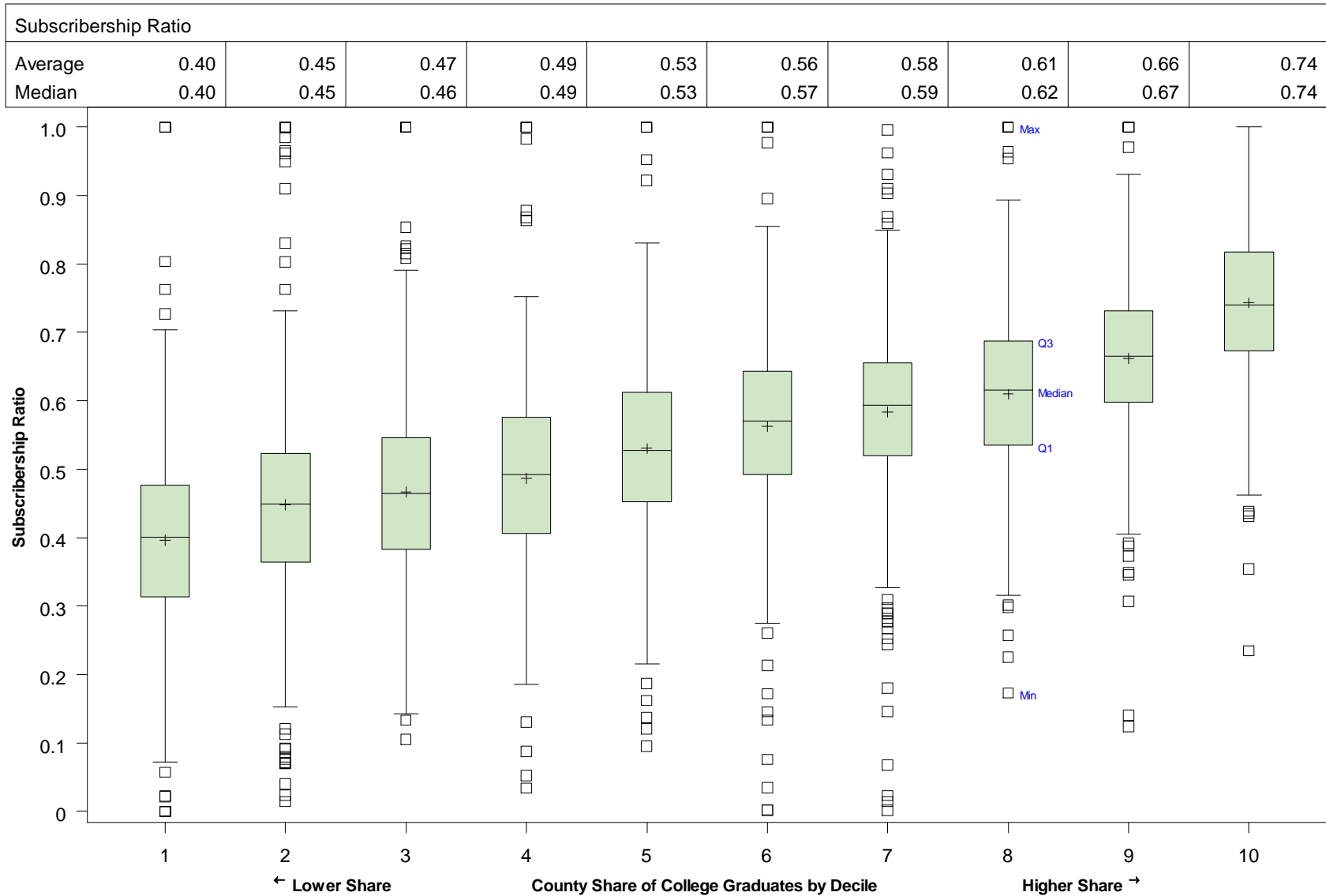
This chart shows cumulative and non-cumulative subscribership ratios by density deciles. Counties were grouped into density deciles based on households per square mile, calculated as the ratio of estimated county households in 2010 to county land area from the Census Bureau. For each decile, the height of any red, non-cumulative bar represents the ratio of the sum of residential fixed connections over 200 kbps in at least one direction across counties in the decile to the sum of households across counties in the decile. The height of the blue, cumulative bar for decile N represents the ratio of the sum of residential fixed connections over 200 kbps in at least one direction across all counties in decile N and all deciles less than N to the number of households in all the counties in decile N and deciles less than N. Sources: FCC Form 477, Part VI; Geolytics 2010 Block-Level Estimates (Households in 2010); and Census 2000 (County land area).

Chart 21
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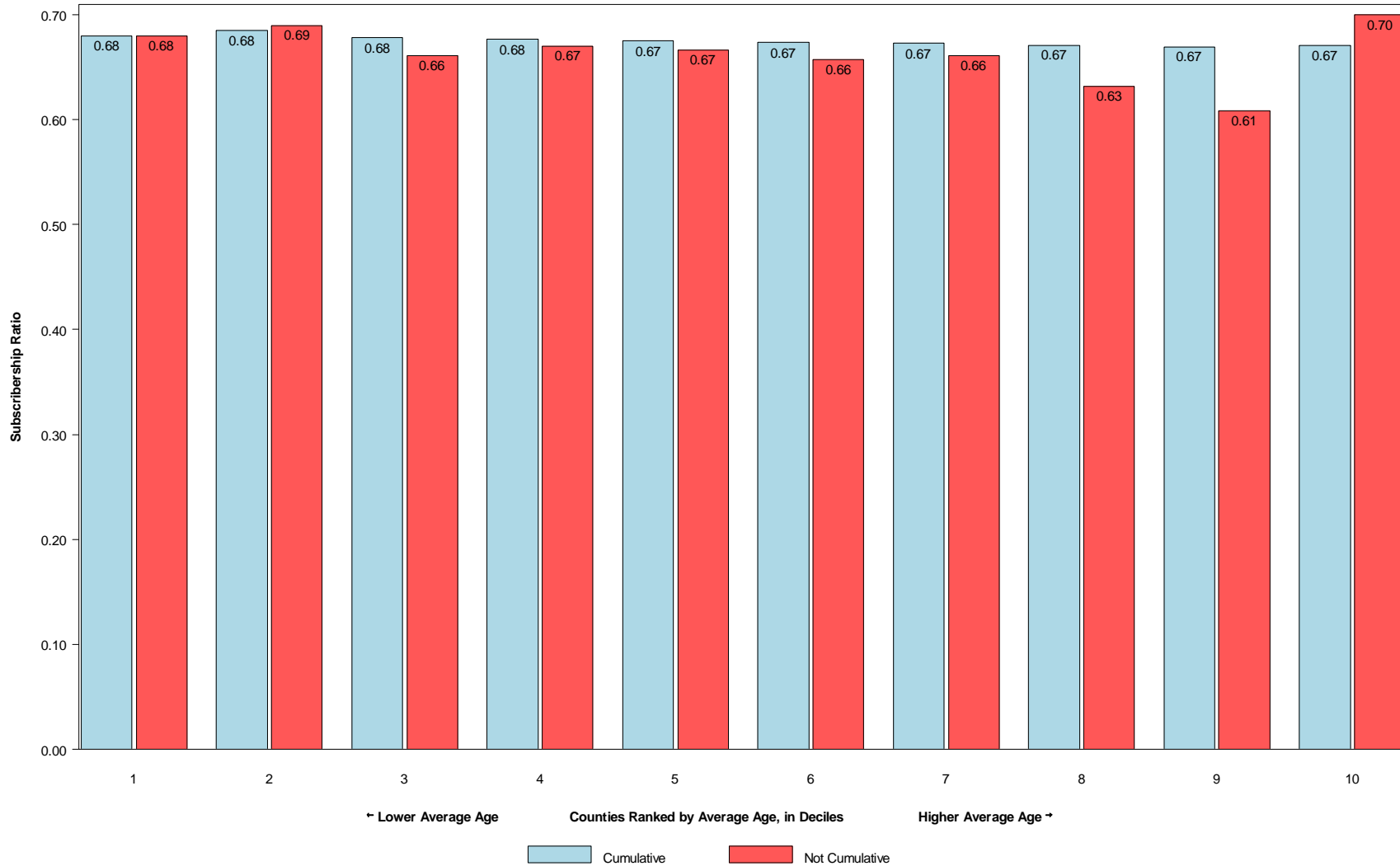
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Note: Each box plot shows the distribution of residential subscribers to connections over 200 kbps in at least one direction for counties in the share decile. Some of the features are labeled, but note also that + denotes the position of the average residential subscriber ratio taken across all counties in the decile; \perp is the minimum observation above $Q1-1.5(Q3-Q1)$; T is the maximum observation below $Q3+1.5(Q3-Q1)$; and \square is a 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, Part VI; Geolytics 2010 Block-Level Estimates (Households in 2010); and Census 2000 (County educational attainment).

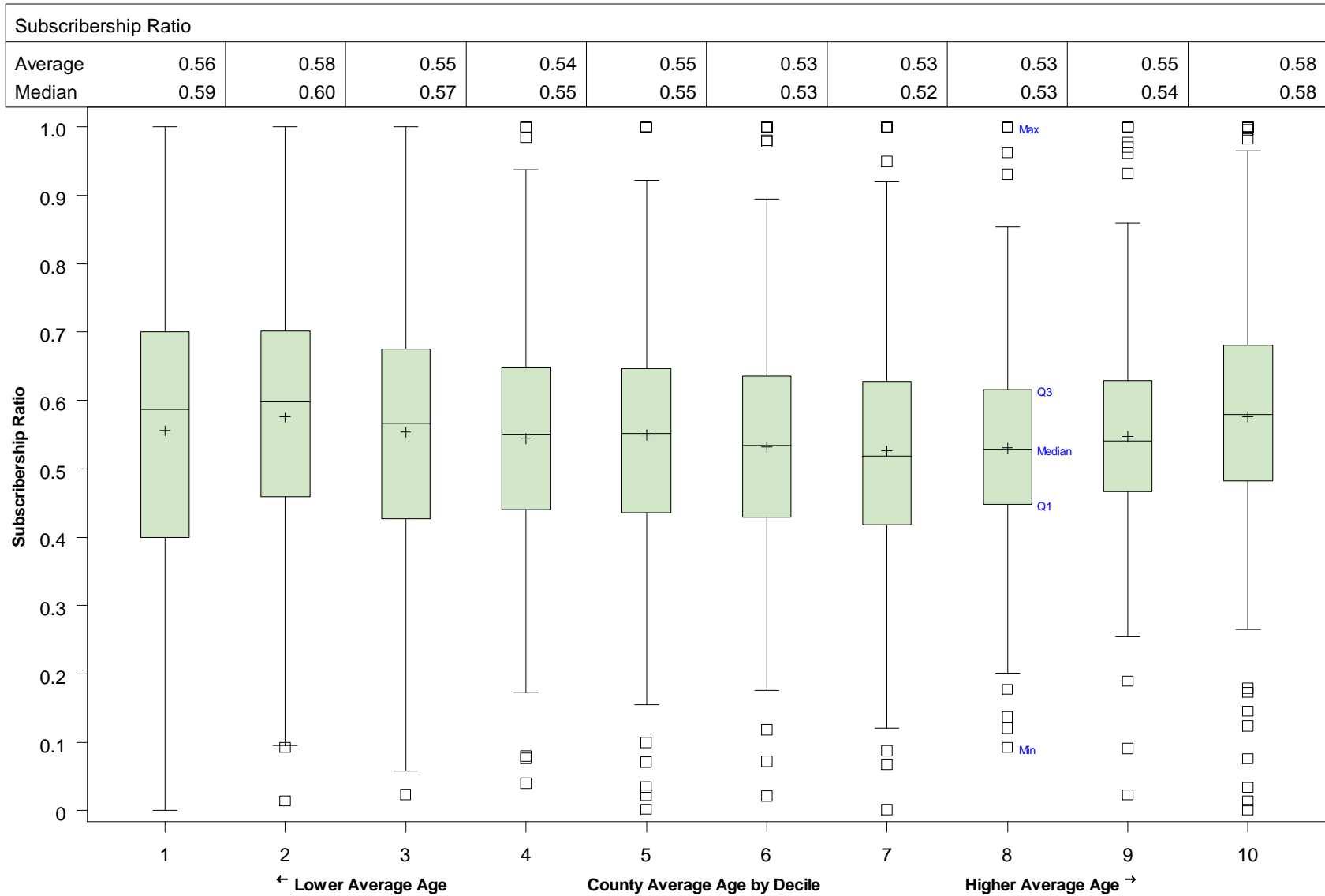
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(County Data)



This chart shows cumulative and non-cumulative subscribership ratios by county average age in deciles. Counties were grouped into deciles based on the average age of the county population. For each decile, the height of any red, non-cumulative bar represents the ratio of the sum of residential fixed connections over 200 kbps in at least one direction across counties in the decile to the sum of households across counties in the decile. The height of the blue, cumulative bar for decile N represents the ratio of the sum of residential fixed connections over 200 kbps in at least one direction across all counties in decile N and all deciles less than N, to the number of households in all the counties in decile N and deciles less than N.

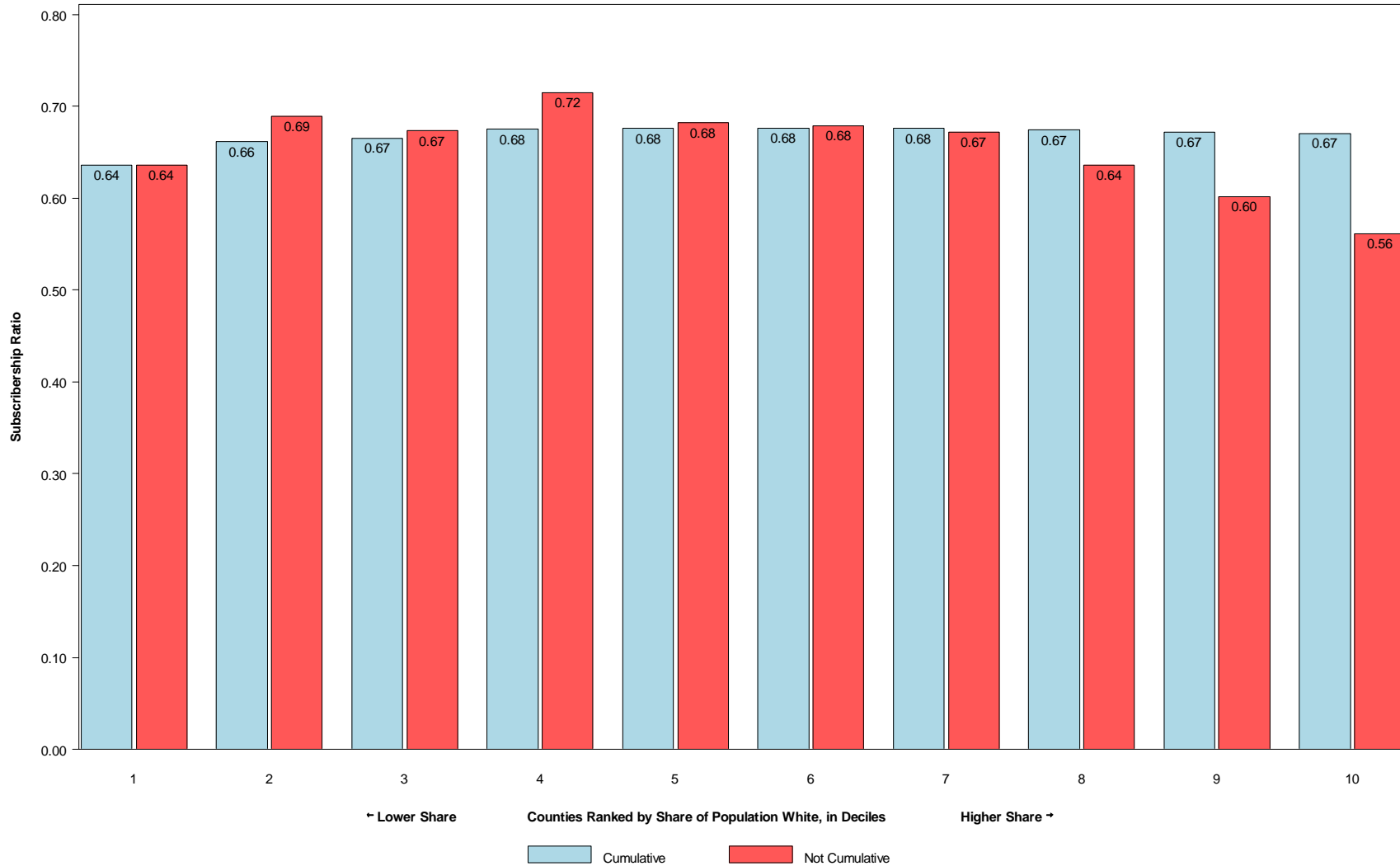
Sources: FCC Form 477, Part VI; Geolytics 2010 Block-Level Estimates (Households in 2010); and Census 2000 (County average age).

Chart 24
Subscribership Ratio Distributions by Average Age of County Population (in Deciles) as of June 30, 2011



Note: Each box plot shows the distribution of residential subscribership to connections over 200 kbps in at least one direction for counties in the average age 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; ⊥ is the minimum observation above Q1-1.5(Q3-Q1); T is the maximum observation below Q3+1.5(Q3-Q1); and □ is a 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, Part VI; Geolytics 2010 Block-Level Estimates (Households in 2010); and Census 2000 (County average age).

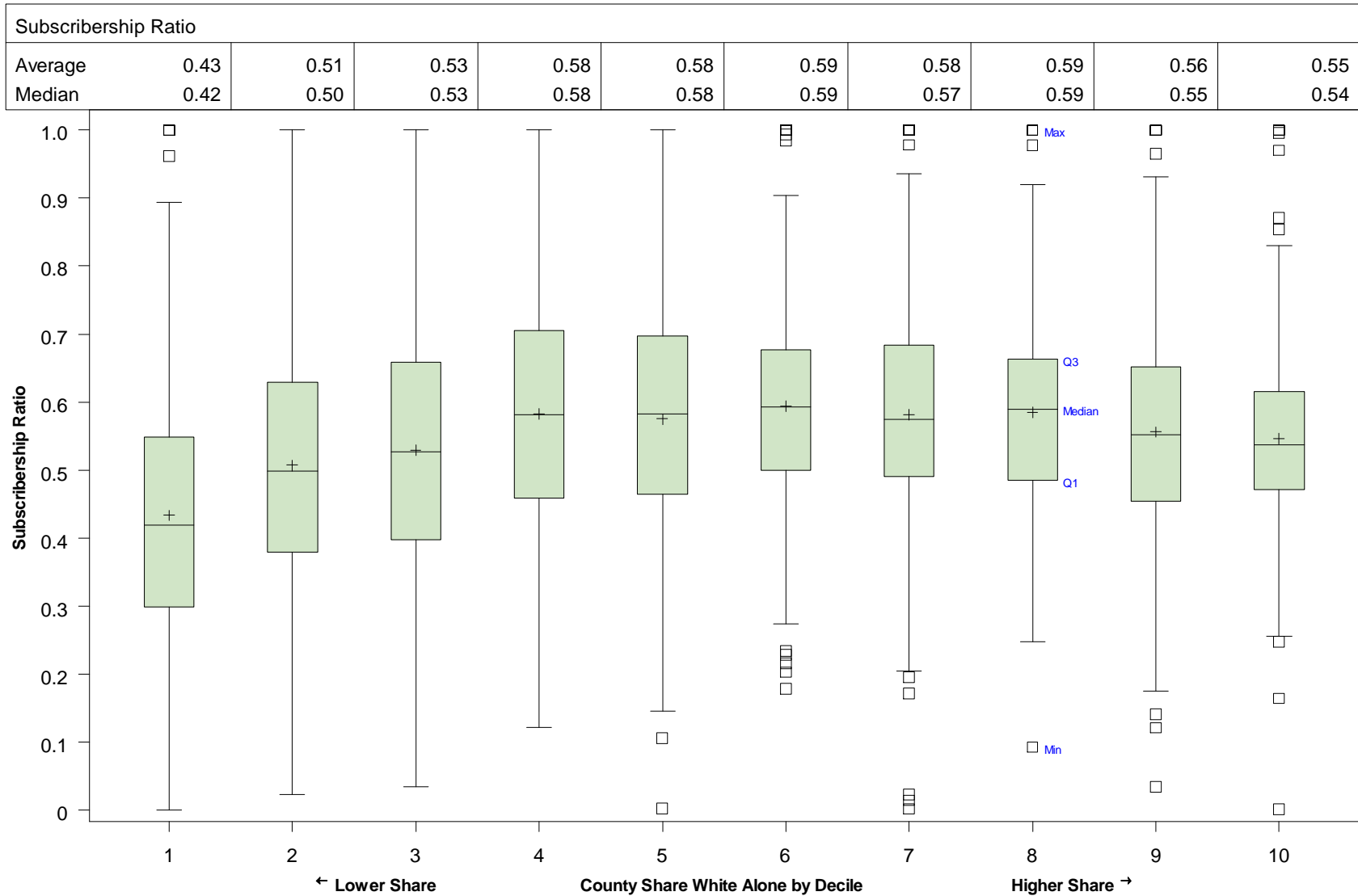
Chart 25
Ratio of Residential Fixed Connections over 200 kbps in at Least One Direction to Households
by Share White Alone in Deciles as of June 30, 2011
(County Data)



This chart shows cumulative and non-cumulative subscribership ratios by the share of county population white alone in deciles. Counties were grouped into deciles based on the share of the county population that reported their race as white alone. For each decile, the height of any red, non-cumulative bar represents the ratio of the sum of residential fixed connections over 200 kbps in at least one direction across counties in the decile to the sum of households across counties in the decile. The height of the blue, cumulative bar for decile N represents the ratio of the sum of residential fixed connections over 200 kbps in at least one direction across all counties in decile N and all deciles less than N, to the number of households in all the counties in decile N and deciles less than N.

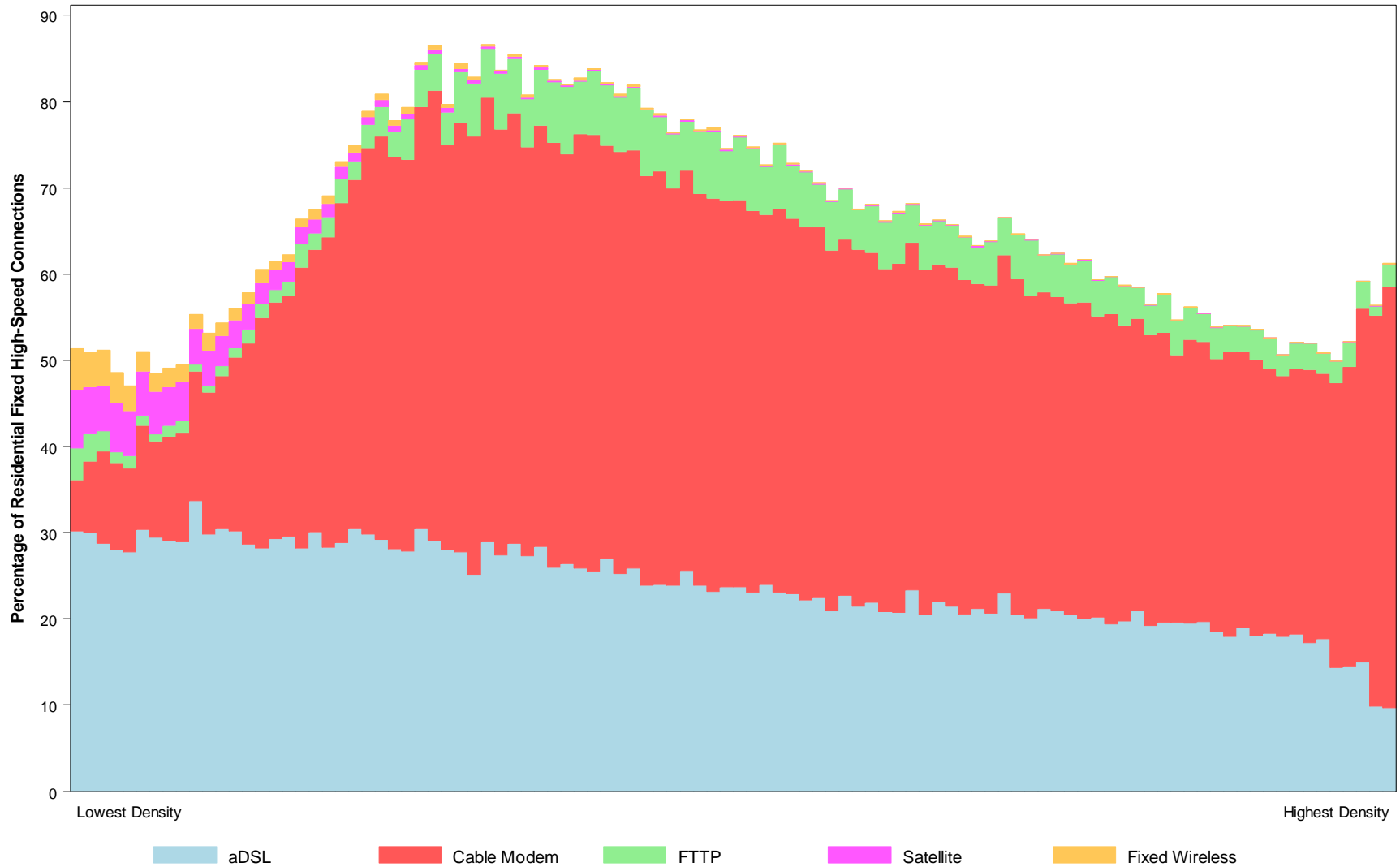
Sources: FCC Form 477, Part VI; Geolytics 2010 Block-Level Estimates (Households in 2010); and Census 2000 (Race).

Chart 26
Subscriberhip Ratio Distributions by Share White Alone (in Deciles) as of June 30, 2011



Note: Each box plot shows the distribution of residential subscribership to connections over 200 kbps in at least one direction for counties in each race decile. Counties were grouped into deciles based on the share of the county population that reported their race as white alone. 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; \perp is the minimum observation above $Q1-1.5(Q3-Q1)$; T is the maximum observation below $Q3+1.5(Q3-Q1)$; and \square is a 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, Part VI; Geolytics 2010 Block-Level Estimates (Households in 2010); and Census 2000 (Race).

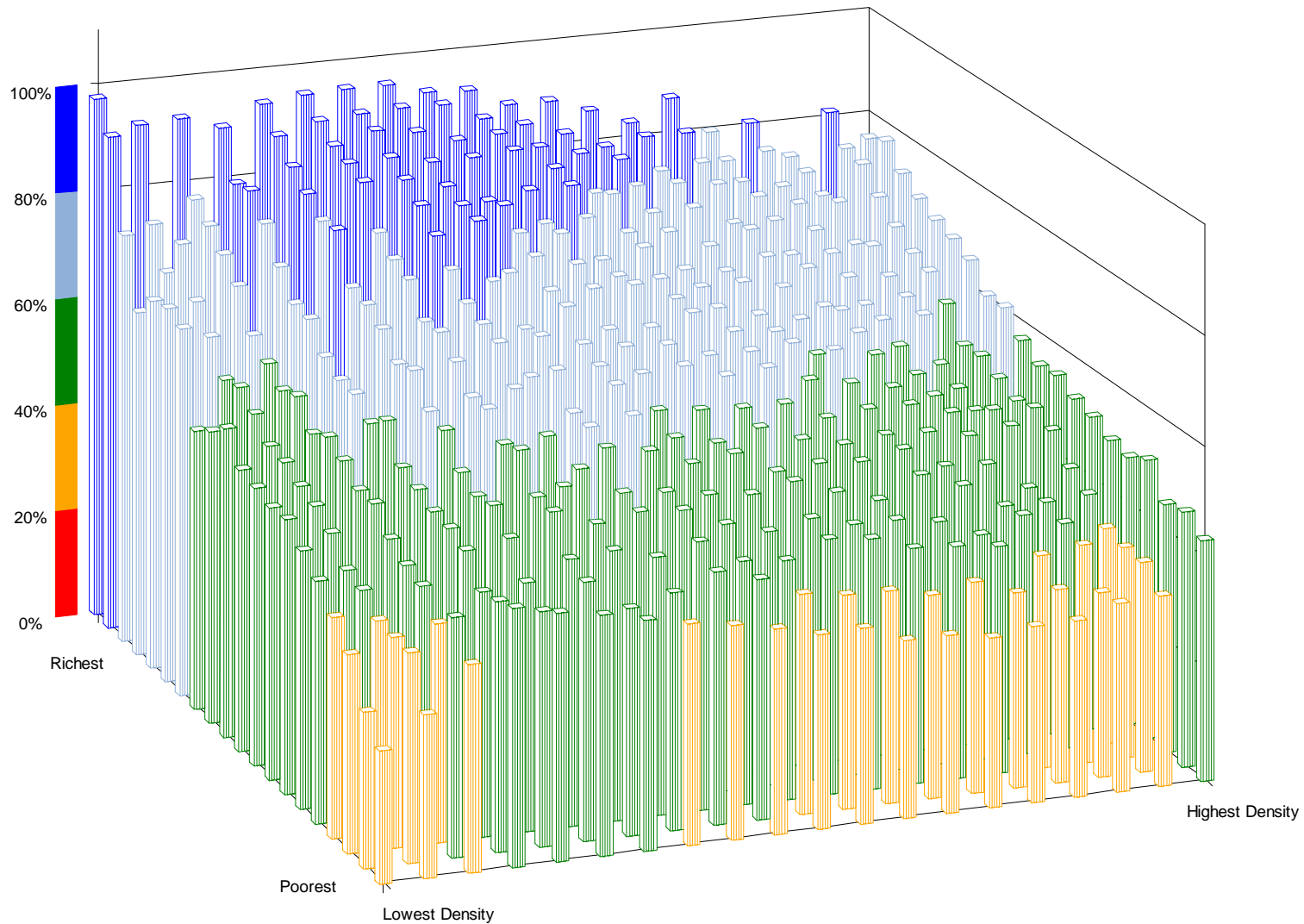
Chart 27
Subscribership Ratios by Technology and Tract Household Density as of June 30, 2011
(Residential fixed connections over 200 kbps in at least one direction)



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 in 2010 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 to households across tracts in the percentile.

Sources: FCC Form 477, Part VI; Geolytics 2010 Block-Level Estimates (Households in 2010); and Census 2000 (Tract land area).

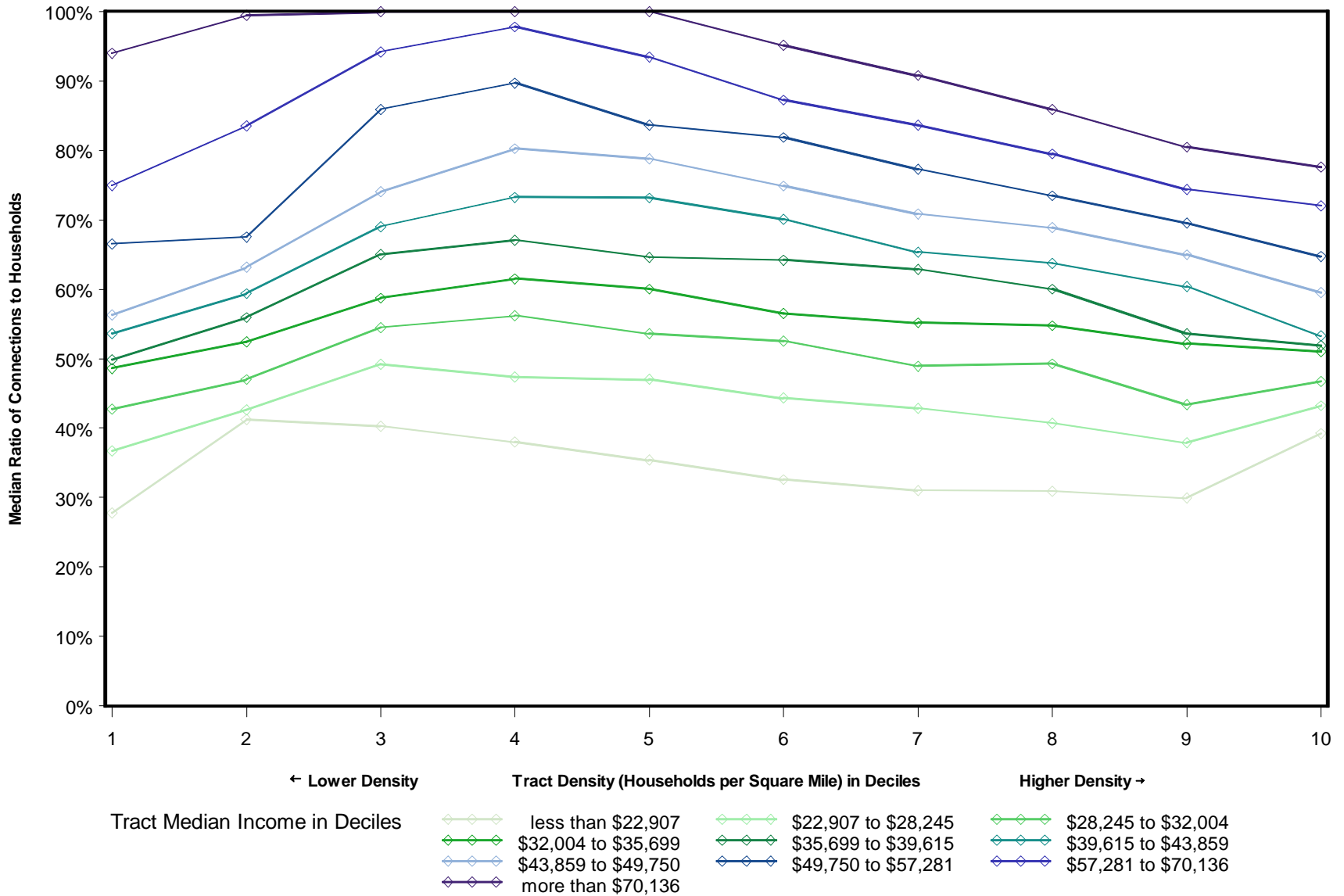
Chart 28
Average Subscribership Ratios by Income and Household Density as of June 30, 2011
(Residential fixed connections over 200 kbps in at least one direction by Tract)



This chart shows subscribership 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 in 2010 to tract land area from the Census Bureau, and median household income. For each quantile, the height of the bar represents the household-weighted average ratio of residential fixed connections to households across tracts in the decile.

Sources: FCC Form 477, Part VI; Geolytics 2010 Block-Level Estimates (Households in 2010); and Census 2000 (Tract land area, Median household income).

Chart 29
Median Ratios of Residential Fixed Connections over 200 kbps in at Least One Direction to Households by Income and Density
Tract Data as of June 30, 2011



Sources: FCC Form 477, Part VI; Geolytics 2010 Block-Level Estimates (Households in 2010); and Census 2000 (Median household income in 1999).

Technical Notes

General

Detailed information about FCC Form 477 reporting requirements is available at www.fcc.gov/form477.

Wherever a number of providers is cited in this report, multiple Form 477 filers within a holding company structure count as one provider.

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 connections in 72 speed tiers (nine upstream tiers and eight downstream) defined by ranges of upstream speeds and downstream speeds. Connections are further categorized by the technology employed by the part of the connection that terminates at the end-user location.

“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 Form 477 purposes, 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.

The mutually exclusive Form 477 technology categories are: asymmetric Digital Subscriber Line (“aDSL” in this report), symmetric Digital Subscriber Line (“sDSL”), other wireline, cable modem, optical fiber to the end-user premises (“FTTP”), satellite, fixed wireless (using licensed or unlicensed spectrum), mobile wireless (using licensed or unlicensed spectrum), electric power line, and all other (which is included to capture deployment of additional technologies over time). In the Form 477 data collection, aDSL-based services delivered over fiber-to-the-node architecture are reported in the aDSL category. The other wireline category comprises T1/DS1, T3/DS3, and other copper-based connections, not elsewhere categorized, that deliver *Internet access* service at the end-user location. Ethernet connections delivering Internet access service are reported in the other wireline category if the connection terminates over copper and in the FTTP category if the connection terminates over fiber. Connections deployed over hybrid fiber-coax (HFC) architecture are reported in the cable modem 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.

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.

Numbers of residential connections are estimated based on the total connections and percentage-residential connections information reported on Form 477.

Census tracts

Starting with data as of December 31, 2008, facilities-based providers of reportable fixed-location Internet access connections must report connection counts and percentage residential information at the census tract level of detail. Because of the inherent mobility of their service, facilities-based mobile wireless providers do not report subscriber counts by census tract. Instead, they report the census tracts in the state that best represent the areas where service is available over the provider's own network, for each of the speed tiers in which the provider offers service.

The census tract-level data summarized in this report were collected for tracts in the 2000 decennial census. For that census, the Census Bureau assigned a default census tract code of 000000 to some coastal and Great Lakes water and territorial sea. These default-code tracts are not included in the statistics presented in this report, which therefore summarize data for 66,287 census tracts.

According to GeoLytics, Inc. estimates for 2010, about 200 census tracts have population but no households because the population resides in group living quarters. For the purpose of estimating residential subscribership rates by census tract, we assume these census tracts have no reportable *residential* Internet access service because persons residing in group quarters would have Internet access over a business connection provided to the operator of the group quarters. Therefore, these census tracts are included in the "zero" column.

Decline in reported mobile wireless connections between June 2008 and December 2008

Changed reporting instructions starting in December 2008 caused a one-time decrease in the reported number of mobile wireless Internet access service connections, from about 60 million in June 2008 to about 25 million in December 2008. For reporting periods through June 30, 2008, Form 477 had instructed mobile wireless providers to report the number of subscribers whose mobile device (such as a wireless modem laptop card, smartphone, or handset) was capable of sending or receiving data at speeds above 200 kbps. The Commission found these instructions insufficiently precise to enable it to determine, from the reported data, the number of subscribers making regular use of Internet access service above 200 kbps as part of their mobile service package. Starting with the December 31, 2008 data, therefore, Form 477 requires mobile wireless providers to report the number of subscribers that have a capable device (as discussed above) for which the subscription includes a data plan for transferring, on a monthly basis, either a specified or an unlimited amount of data to and from Internet sites of the subscriber's choice, and *excluding* subscribers whose choice of content is restricted to only customized-for-mobile content (for example, text and multimedia messaging, or the capacity to download ringtones and games).

Starting with the December 31, 2008, data, providers also must report, explicitly and separately, total subscribers with a device capable of sending or receiving data at speeds above 200 kbps, irrespective of the service plan purchased. The number of such devices reported for December 2008 was about 86 million. That figure is not directly comparable to mobile wireless connections reported for June 2008 or earlier reporting periods, however, because individual providers – to a varying and largely unknown degree – included or excluded subscribers with service plans for less than full Internet access in the earlier data.

Finally, the Form 477 modifications adopted for the December 31, 2008, and later, data specify how mobile wireless providers should distinguish between residential subscribers and other subscribers, and some of these providers consequently reported a larger share of residential subscribers than they had reported for earlier dates.

Ratios of residential fixed-location connections to households that exceed 100%

Starting with data as of December 31, 2008, information about connections over fixed-location technologies must be reported for individual census tracts. This allows us to estimate the share of households with fixed-location connections in individual census tracts by taking the ratio of the reported number of fixed-location residential service connections to the estimated number of households. In the year-end 2009 data, 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 (for 2010, from GeoLytics, Inc.), which could have an independent effect.

Maps showing number of providers by census tract

Readers of previous reports in this series may note certain differences in the provider-count maps in this report as compared to maps for June 30, 2008 and earlier dates, which showed the number of providers by 5-digit geographical ZIP Code. The ZIP Code-based maps counted (at the holding company level) each provider with any fixed-location connections (wired, terrestrial fixed wireless, or satellite) reported for the ZIP Code and also any mobile wireless service provider who listed the ZIP Code as part of its service area. By contrast, in this report we provide separate maps for providers (counted at the holding company level) of fixed-location connections and for mobile wireless providers. Also, we present maps showing the number of providers that reported any *residential* fixed-location connections, thereby excluding any providers of exclusively business fixed-location connections in the census tract.

Maps showing residential subscribership rates by census tract

The two maps based on estimated Internet access connections over 200 kbps in at least one direction per 1,000 households (that is, estimated household subscribership, or *adoption*, rates) are not comparable to ZIP Code-based maps developed from FCC Form 477 data for June 30, 2008 and earlier dates because *numbers* of connections were never reported for individual ZIP Codes. Readers should note that these two maps (1) exclude all connections identified as business connections and (2) necessarily exclude residential mobile wireless connections (which are reported for the state but not for individual census tracts).

Glossary

Term	Definition
aDSL	Asymmetric Digital Subscriber Line: A digital local loop typically using copper facilities and providing greater bandwidth in one direction than the other.
Cable modem service	A service which offers customers access to the Internet over a cable system.
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 wireless	A radio communication service between specified fixed points.
Fixed-location technologies	All technologies other than terrestrial mobile wireless.
FTTH or FTTP	Fiber to the Home (Premises): A network access architecture in which optical fiber is deployed all the way to the customer's home (premises).
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).
iVoIP	Interconnected Voice Over Internet Protocol: A service that enables real-time, two-way voice communications; requires a broadband connection from the user's location; requires Internet-protocol compatible customer premises equipment; and permits users generally to receive calls that originate on the public switched telephone network and to terminate calls to the public switched telephone network.
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).
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.
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).
Wireless telecommunications	Any means of electronic data transfer using electromagnetic means, most commonly radio waves.
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.
WLAN	Wireless local area network: A WLAN uses radio waves to connect user devices to a local area network (LAN), thereby extending an existing wired LAN.

Customer Response

Publication: *Internet Access Services: Status as of June 30, 2011*

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