

**APPENDIX H**  
**ADOPTION**

**APPENDIX H-1: Adoption Rates for Residential Fixed Terrestrial Broadband Services by State (Dec. 31, 2023)**

**APPENDIX H-2: Subscribership Ratios for Residential Mobile Broadband Services by State (Dec. 31, 2023)**

**APPENDIX H-3: Mobile Broadband Penetration Rate by State**

**APPX. H-1**  
**Adoption Rates for Residential Fixed Terrestrial Broadband Services**  
**by State (Dec. 31, 2023)**

	<b>At Least 100/20 Mbps</b>	<b>At Least 940/500 Mbps</b>
<b>United States</b>	53.1%	26.3%
<b>Alabama</b>	46.9%	23.2%
<b>Alaska</b>	*	*
<b>American Samoa</b>	0.0%	NA
<b>Arizona</b>	53.0%	25.2%
<b>Arkansas</b>	50.3%	17.6%
<b>California</b>	51.7%	19.5%
<b>Colorado</b>	50.2%	22.0%
<b>Connecticut</b>	63.7%	14.5%
<b>Delaware</b>	70.9%	*
<b>District of Columbia</b>	67.5%	*
<b>Florida</b>	53.8%	20.7%
<b>Georgia</b>	56.6%	27.6%
<b>Guam</b>	*	0.0%
<b>Hawaii</b>	*	*
<b>Idaho</b>	53.2%	23.8%
<b>Illinois</b>	43.3%	14.2%
<b>Indiana</b>	47.7%	17.3%
<b>Iowa</b>	59.9%	18.9%
<b>Kansas</b>	55.1%	27.8%
<b>Kentucky</b>	52.0%	12.6%
<b>Louisiana</b>	41.4%	22.2%
<b>Maine</b>	25.7%	2.1%
<b>Maryland</b>	69.8%	*
<b>Massachusetts</b>	59.2%	45.1%
<b>Michigan</b>	38.3%	12.5%
<b>Minnesota</b>	45.3%	12.3%
<b>Mississippi</b>	55.5%	31.4%
<b>Missouri</b>	49.6%	18.3%
<b>Montana</b>	32.0%	11.4%
<b>N. Mariana Isl.</b>	0.0%	NA
<b>Nebraska</b>	57.1%	12.3%
<b>Nevada</b>	56.7%	17.5%

	<b>At Least 100/20 Mbps</b>	<b>At Least 940/500 Mbps</b>
<b>New Hampshire</b>	53.9%	2.0%
<b>New Jersey</b>	75.7%	*
<b>New Mexico</b>	34.0%	17.3%
<b>New York</b>	58.4%	34.2%
<b>North Carolina</b>	53.4%	24.9%
<b>North Dakota</b>	84.1%	8.7%
<b>Ohio</b>	44.7%	11.6%
<b>Oklahoma</b>	50.2%	25.9%
<b>Oregon</b>	46.6%	14.9%
<b>Pennsylvania</b>	58.4%	*
<b>Puerto Rico</b>	18.6%	1.5%
<b>Rhode Island</b>	66.4%	*
<b>South Carolina</b>	53.6%	16.2%
<b>South Dakota</b>	80.0%	13.9%
<b>Tennessee</b>	54.5%	25.8%
<b>Texas</b>	58.4%	26.2%
<b>U.S. Virgin Isl.</b>	*	NA
<b>Utah</b>	56.1%	32.1%
<b>Vermont</b>	43.0%	12.5%
<b>Virginia</b>	63.0%	55.4%
<b>Washington</b>	50.8%	23.2%
<b>West Virginia</b>	50.4%	15.9%
<b>Wisconsin</b>	37.8%	8.9%
<b>Wyoming</b>	34.1%	13.2%

Source: FCC BDC, Dec. 2023; FCC Form 477, Dec. 2023; Staff Block Estimates.

NA: Service is not available in this area. \*: Data not included to maintain confidentiality.

**APPX. H-2**  
**Subscribership Ratios for Residential Mobile Broadband Services**  
**by State (Dec. 31, 2023)**

State	Population (millions)	Connections (millions)	Subscribership Ratio
<b>United States</b>	338.491	339.571	100.3%
<b>Alabama</b>	5.108	4.963	97.2%
<b>Alaska</b>	0.733	0.694	94.6%
<b>American Samoa</b>	0.045	*	*
<b>Arizona</b>	7.431	7.273	97.9%
<b>Arkansas</b>	3.068	2.969	96.8%
<b>California</b>	38.965	41.986	107.8%
<b>Colorado</b>	5.878	5.526	94.0%
<b>Connecticut</b>	3.617	3.746	103.6%
<b>Delaware</b>	1.032	1.035	100.3%
<b>District of Columbia</b>	0.679	0.937	138.0%
<b>Florida</b>	22.611	24.089	106.5%
<b>Georgia</b>	11.029	11.228	101.8%
<b>Guam</b>	0.169	*	*
<b>Hawaii</b>	1.435	1.448	100.9%
<b>Idaho</b>	1.965	1.747	88.9%
<b>Illinois</b>	12.550	12.902	102.8%
<b>Indiana</b>	6.862	6.345	92.5%
<b>Iowa</b>	3.207	2.968	92.5%
<b>Kansas</b>	2.941	2.813	95.7%
<b>Kentucky</b>	4.526	4.200	92.8%
<b>Louisiana</b>	4.574	4.871	106.5%
<b>Maine</b>	1.396	1.179	84.5%
<b>Maryland</b>	6.180	6.439	104.2%
<b>Massachusetts</b>	7.001	6.936	99.1%
<b>Michigan</b>	10.037	9.531	95.0%
<b>Minnesota</b>	5.738	5.344	93.1%
<b>Mississippi</b>	2.940	3.070	104.4%
<b>Missouri</b>	6.196	5.841	94.3%
<b>Montana</b>	1.133	0.977	86.2%
<b>N. Mariana Isl.</b>	0.051	*	*
<b>Nebraska</b>	1.978	1.806	91.3%
<b>Nevada</b>	3.194	3.346	104.8%

State	Population (millions)	Connections (millions)	Subscribership Ratio
New Hampshire	1.402	1.252	89.3%
New Jersey	9.291	10.002	107.6%
New Mexico	2.114	2.101	99.4%
New York	19.571	21.348	109.1%
North Carolina	10.835	9.985	92.2%
North Dakota	0.784	0.741	94.5%
Ohio	11.786	11.096	94.1%
Oklahoma	4.054	3.944	97.3%
Oregon	4.233	3.951	93.3%
Pennsylvania	12.962	12.822	98.9%
Puerto Rico	3.206	*	*
Rhode Island	1.096	1.101	100.5%
South Carolina	5.374	4.898	91.2%
South Dakota	0.919	0.832	90.5%
Tennessee	7.126	6.896	96.8%
Texas	30.503	32.113	105.3%
U.S. Virgin Isl.	0.105	*	*
Utah	3.418	2.972	87.0%
Vermont	0.647	0.520	80.3%
Virginia	8.716	8.673	99.5%
Washington	7.813	7.433	95.1%
West Virginia	1.770	1.616	91.3%
Wisconsin	5.911	4.861	82.2%
Wyoming	0.584	0.554	94.9%

Source: FCC Form 477, Dec. 2023; Staff Block Estimates.

\*: Data not included to maintain confidentiality.

**APPX. H-3**  
**Mobile Broadband Penetration Rate by State (2023)**

<b>Market Name</b>	<b>2020 Census Population</b>	<b>2023 Estimated Population</b>	<b>Dec. 2023 Market Subscribers</b>	<b>2023 Penetration</b>
Alabama	5,024,279	5,108,468	7,885,119	154%
Alaska	733,391	733,406	938,038	128%
American Samoa	49,710		66,174	
Arizona	7,151,502	7,431,344	9,558,121	129%
Arkansas	3,011,524	3,067,732	4,514,035	147%
California	39,538,223	38,965,193	64,116,186	165%
Colorado	5,773,714	5,877,610	7,728,551	131%
Connecticut	3,605,944	3,617,176	5,130,343	142%
Delaware	989,948	1,031,890	1,433,590	139%
District of Columbia	689,545	678,972	2,218,358	327%
Florida	21,538,187	22,610,726	32,627,504	144%
Georgia	10,711,908	11,029,227	18,432,950	167%
Guam	153,836		299,560	
Hawaii	1,455,271	1,435,138	2,130,889	148%
Idaho	1,839,106	1,964,726	2,285,959	116%
Illinois	12,812,508	12,549,689	20,198,281	161%
Indiana	6,785,528	6,862,199	8,728,395	127%
Iowa	3,190,369	3,207,004	4,571,652	143%
Kansas	2,937,880	2,940,546	3,772,056	128%
Kentucky	4,505,836	4,526,154	5,836,447	129%
Louisiana	4,657,757	4,573,749	6,776,615	148%
Maine	1,362,359	1,395,722	1,639,096	117%
Maryland	6,177,224	6,180,253	8,692,255	141%
Massachusetts	7,029,917	7,001,399	10,405,860	149%
Michigan	10,077,331	10,037,261	15,334,613	153%
Minnesota	5,706,494	5,737,915	7,802,171	136%
Mississippi	2,961,279	2,939,690	4,399,585	150%
Missouri	6,154,913	6,196,156	8,753,464	141%
Montana	1,084,225	1,132,812	1,347,565	119%
Northern Mariana	47,329		75,148	
Nebraska	1,961,504	1,978,379	2,634,499	133%
Nevada	3,104,614	3,194,176	4,375,374	137%
New Hampshire	1,377,529	1,402,054	1,744,685	124%
New Jersey	9,288,994	9,290,841	14,804,728	159%

Market Name	2020 Census Population	2023 Estimated Population	Dec. 2023 Market Subscribers	2023 Penetration
New Mexico	2,117,522	2,114,371	3,187,922	151%
New York	20,201,249	19,571,216	30,676,568	157%
North Carolina	10,439,388	10,835,491	13,846,192	128%
North Dakota	779,094	783,926	1,051,936	134%
Ohio	11,799,448	11,785,935	16,391,213	139%
Oklahoma	3,959,353	4,053,824	5,503,795	136%
Oregon	4,237,256	4,233,358	5,510,406	130%
Pennsylvania	13,002,700	12,961,683	18,654,429	144%
Puerto Rico	3,285,874	3,205,691	4,405,648	137%
Rhode Island	1,097,379	1,095,962	1,439,890	131%
South Carolina	5,118,425	5,373,555	7,109,663	132%
South Dakota	886,667	919,318	1,114,093	121%
Tennessee	6,910,840	7,126,489	10,125,708	142%
Texas	29,145,505	30,503,301	43,178,963	142%
U.S. Virgin Islands	87,146		119,652	
Utah	3,271,616	3,417,734	5,010,837	147%
Vermont	643,077	647,464	713,000	110%
Virginia	8,631,393	8,715,698	11,931,496	137%
Washington	7,705,281	7,812,880	10,192,406	130%
West Virginia	1,793,716	1,770,071	2,514,224	142%
Wisconsin	5,893,718	5,910,955	7,403,649	125%
Wyoming	576,851	584,057	785,715	135%

Source: December 2023 NRUF data; 2020 U.S. Census data; Staff block estimates.