

High-Speed Services for Internet Access: Status as of June 30, 2008

Industry Analysis and Technology Division
Wireline Competition Bureau
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Congress directed the Commission and the states, in section 706 of the Telecommunications Act of 1996, to encourage deployment of advanced telecommunications capability in the United States on a reasonable and timely basis.¹ To assist in its evaluation of such deployment, in 2000 the Commission instituted a formal data collection program (FCC Form 477) to gather standardized information about subscribership to high-speed services, including advanced services, from wireline telephone companies, cable system operators, terrestrial wireless service providers, satellite service providers, and any other facilities-based providers of advanced telecommunications capability.² Filers were required to report the number of subscribers they had in each state, broken down by speed tier and technology, and to identify all Zip Codes in which they had at least one high-speed connection in service.³

The Commission and others have recognized these requirements as insufficiently granular or precise to inform necessary policymaking. In June 2008, the Commission released a Report and Order (FCC 08-89) and Order on Reconsideration (FCC 08-148), which together implemented significant improvements to the way in which the Commission collects data on these services.⁴ As part of these improvements, which were effective for the March 2009 collection of data as of year-end 2008, providers of wired broadband, fixed-wireless broadband, and satellite-based broadband connections report subscriber counts at the Census Tract level rather than the state level, and all filers report their connections in accordance with an increased number of upload and download transmission speed tiers. In conjunction with measures underway pursuant to the Broadband Data Improvement Act and the Recovery Act,⁵ the new Form 477 data will provide

¹ See §706, Pub.L. 104-104, Title VII, Feb. 8, 1996, 110 Stat. 153, reproduced in the notes under 47 U.S.C. § 157. In this report, we use the term “high-speed” to describe services that provide the subscriber with transmissions at a speed in excess of 200 kilobits per second (kbps) in at least one direction. “Advanced services,” which provide the subscriber with transmission speeds in excess of 200 kbps in each direction, are a subset of high-speed services.

² *Local Competition and Broadband Reporting*, CC Docket No. 99-301, Report and Order, 15 FCC Rcd 7717 (2000); *Local Telephone Competition and Broadband Reporting*, WC Docket No. 04-141, Report and Order, 19 FCC Rcd 22340 (2004). Qualifying entities file FCC Form 477 each year on March 1 (reporting data for the preceding December 31) and September 1 (reporting data for June 30 of the same year). The first data collected were as of December 31, 1999.

³ Because of the inherent mobility of their service, mobile wireless providers reported subscribers by state and the Zip Codes that best represented their broadband-network coverage area. In addition to reporting subscribers by state and Zip Codes with connections in service, incumbent telephone companies and cable system operators reported their DSL or cable modem service *availability* to the housing units in their service area in the state.

⁴ *Development of Nationwide Broadband Data to Evaluate Reasonable and Timely Deployment of Advanced Services to All Americans, Improvement of Wireless Broadband Subscribership Data, and Development of Data on Interconnected Voice over Internet Protocol (VoIP) Subscribership*, WC Docket No. 07-38, Report and Order, 23 FCC Rcd 9691 (2008); Order on Reconsideration, 23 FCC Rcd 9800 (2008). Effective with the filing of data as of December 31, 2008, Form 477 is a Web-based electronic filing system. Information about this system is available at <http://www.fcc.gov/form477/>.

⁵ See 47 U.S.C. § 1301 *et seq.* (Broadband Data Improvement Act); American Recovery and Reinvestment Act of 2008, Pub.L. 111-5, 123 Stat. 115 (2009) (Recovery Act).

the Commission and the public with a more valuable resource for evaluating the state of broadband in the country.

Statistics reported here reflect data as of June 30, 2008, and are the last to be based on data collected under the previous Form 477 requirements.⁶ Readers can draw the following broad conclusions from the data summarized in this report:

- High-speed lines connecting homes and businesses to the Internet at speeds exceeding 200 kbps in *at least one* direction increased by 10% during the first half of 2008, from 121.1 million lines to 132.8 million lines in service, following a 20% increase, from 101.0 million to 121.2 million lines, during the second half of 2007. For the full twelve-month period ending June 30, 2008, high-speed lines increased by 32% (or 31.8 million lines). See Table 1 and Chart 1.
- ADSL lines increased by 0.5 million lines during the first half of 2008, fiber connections increased by 0.5 million lines, and cable modem service increased by 1.7 million lines. For the full twelve-month period ending June 30, 2008, ADSL increased by 2.2 million lines, fiber connections increased by 1.1 million lines, and cable modem service increased by 3.8 million lines. See Table 1.

⁶ The terms “high-speed connections” and “broadband connections” are synonyms in this report. The reported connections terminate at end user locations and enable the end user to receive information from and/or send information to the Internet at information transfer rates exceeding 200 kbps in at least one direction. “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. The “facilities-based” provider of a broadband 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 broadband, or provisions/equips a broadband wireless channel to the end user location over licensed spectrum or over spectrum that the provider uses on an unlicensed basis. 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.

Prior to June 2005, providers with fewer than 250 high-speed connections in service in a particular state were not required to report data for that state. Therefore, small providers, many of whom serve rural areas with relatively small populations, were underrepresented in the data. Including these providers resulted in a one-time increase – from 552 in December 2004 to 1,270 in June 2005 – in the number of holding companies and unaffiliated entities reporting information about high-speed connections. See Table 7. High-speed lines reported in voluntary submissions of data prior to June 2005 represented less than 0.05% of total reported high-speed lines. As of June 30, 2005, filers with fewer than 250 lines in a state (including some entities that previously made voluntary submissions) represented about 0.2% of total reported high-speed lines.

Statistical summaries of the earlier Form 477 data collections appeared in *Deployment of Advanced Telecommunications Capability to All Americans in a Reasonable and Timely Fashion*, CC Docket No. 98-146, Second Report, 15 FCC Rcd 20913 (2000) (*Second 706 Report*), available at www.fcc.gov/broadband/706.html, and in previous releases of the *High-Speed Services for Internet Access* report, available at www.fcc.gov/wcb/stats.

- Of the 132.8 million total high-speed lines, 28.8% were cable modem, 22.6% were ADSL, 0.7% were symmetric DSL (SDSL) or traditional wireline, 1.8% were fiber to the end user premises, and 46.2% used other technologies.⁷ See Chart 2.
- Lines connecting homes and businesses to the Internet at transmission speeds exceeding 200 kbps in *both* directions increased from 80.3 million lines to 88.4 million lines during the first half of 2008. For the full twelve-month period ending June 30, 2008, they increased by 18.8 million, from 69.6 million lines to 88.4 million lines. See Table 2 and Chart 3.
- Of the 88.4 million lines which were faster than 200 kbps in *both* directions, 42.8% were cable modem, 29.6% were ADSL, 1.1% were SDSL or traditional wireline, 2.7% were fiber to the end user premises, and 23.9% used other technologies. See Chart 4.
- Of the 132.8 million total high-speed lines, 79.1 million were designed to serve primarily residential end users. Cable modem represented 46.7% of these lines while 34.1% were ADSL, 0.1% were SDSL or traditional wireline connections, 2.7% were fiber to the end user premises, and 16.4% used other technologies. See Table 3 and Chart 6. For state-specific data, see Table 13.
- Of the 88.4 million lines that were faster than 200 kbps in *both* directions, 74.5 million lines were designed to serve primarily residential end users. Of these, cable modem represented 49.2% while 31.3% were ADSL, 0.2% were SDSL or traditional wireline, 2.9% were fiber to the end user premises, and 16.5% used other technologies. See Table 4 and Chart 8.
- Of the 88.4 million reported high-speed lines that were faster than 200 kbps in *both* directions as of June 30, 2008, 55.5% were at least 2.5 mbps in the faster direction and 44.5% were slower than 2.5 mbps in the faster direction. See Table 5.
- Incumbent LECs or their affiliates reported 97.3% of ADSL connections, 91.8% of fiber-to-the-premises connections, 81.3% of the mobile service subscribers whose wireless device is capable of operating on a high-speed mobile wireless network, and 32.4% of traditional wireline connections. When all technologies are considered, incumbent LECs reported 60.4% of total high-speed connections. See Table 6.
- High-speed lines were reported in all 50 states, the District of Columbia, American Samoa, Guam, Northern Mariana Islands, Puerto Rico, and the Virgin Islands. See Table 9 and, for historical data, Tables 10 - 12.

⁷ Providers are instructed to report a high-speed connection in the (mutually exclusive) technology category that characterizes the last few feet of distribution plant to the subscriber's premises. In addition to cable modem, ADSL, SDSL, traditional wireline when used for Internet access, and optical carrier (fiber to the end user) connections, reporting entities specify satellite, terrestrial fixed wireless (licensed or unlicensed), terrestrial mobile wireless (licensed or unlicensed), electric power line, or "all other" technology. See additional notes following Chart 10.

- As a nationwide average, we estimate that high-speed DSL connections were available to 83% of the households to whom incumbent LECs could provide local telephone service, and that high-speed cable modem service was available to 96% of the households to whom cable system operators could provide cable TV service. See Table 14.
- Providers other than providers of terrestrial mobile wireless services listed the Zip Codes in which they had at least one high-speed connection in service to an end user, while terrestrial mobile wireless service providers listed the Zip Codes that best represented their service territories. Combining these data, 100% of 5-digit geographical Zip Codes were represented in the lists filed for June 2008.⁸ The most widely reported technologies by this measure were high-speed mobile wireless (with at least some presence reported in 99% of Zip Codes), satellite (in 93% of Zip Codes), ADSL (in 87% of Zip Codes), and cable modem service (in 67% of Zip Codes). ADSL and/or cable modem connections were reported to be present in 91% of Zip Codes.⁹ See Tables 15 and 16, and the map that follows Table 16. For state-specific data, see Table 17.
- High population density and high median household income each have had a positive association with reports that high-speed subscribers are present. See Tables 18 and 19.

As other information from the Commission's data collection program (FCC Form 477) becomes available, it will be included in future reports on the deployment of advanced telecommunications capability and in publications such as this one.

We invite users of this information to provide suggestions for improved data collection and analysis by:

- Using the attached customer response form,
- E-mailing comments to James.Eisner@fcc.gov or Suzanne.Mendez@fcc.gov,
- Calling the Industry Analysis and Technology Division of the Wireline Competition Bureau at (202) 418-0940, or
- Participating in any formal proceedings undertaken by the Commission to solicit comments for improvement of FCC Form 477.

⁸ Lists of Zip Codes with number of service providers as reported in the FCC Form 477 filings are made available at www.fcc.gov/wcb/stats in a format that honors requests for nondisclosure of information the reporting entities assert is competitively sensitive. Form 477 filings of data after June 30, 2008 will not include broadband provider Zip Code lists. The later filings will include broadband information based on census tracts.

⁹ The 91.4% figure includes Zip Codes with either ADSL subscribers reported, cable modem subscribers reported, or both. In 63.0% of Zip Codes, both ADSL and cable modem subscribers have been reported. In 24.2% of Zip Codes, there are ADSL subscribers reported but no cable modem subscribers, and in 4.2% of Zip Codes there are cable modem subscribers reported but no ADSL subscribers reported.

Table 1
High-Speed Lines¹
(Over 200 kbps in at least one direction)

Technology ²	2002	2003	2004	2005		2006		2007		2008
	Jun	Jun	Jun	Jun	Dec	Jun	Dec	Jun	Dec	Jun
ADSL	5,101,493	7,675,114	11,398,199	16,316,309	19,515,483	22,583,548	25,412,509	27,792,800	29,449,166	29,963,968
SDSL and Traditional Wireline	1,186,680	1,215,713	1,407,121	898,468	741,904	809,209	889,266	941,685	898,363	939,692
SDSL	-	-	-	411,731	368,782	337,412	344,759	319,991	293,421	274,582
Traditional Wireline	-	-	-	486,737	373,122	471,797	544,507	621,694	604,942	665,110
Cable Modem	9,172,895	13,684,225	18,592,636	24,017,442	26,558,206	29,173,449	31,981,705	34,404,368	36,506,972	38,190,355
Fiber ³	105,991	111,386	130,928	315,651	298,052	547,082	893,995	1,280,994	1,848,565	2,346,328
Satellite and Wireless	220,588	309,006	421,690	965,068	3,812,029	11,873,157	23,343,199	36,560,869	52,514,007	61,368,444
Satellite	-	-	-	376,837	426,928	495,365	571,980	668,803	791,142	869,450
Fixed Wireless	-	-	-	208,695	257,431	361,272	483,470	586,813	706,552	808,375
Mobile Wireless	-	-	-	379,536	3,127,670	11,016,520	22,287,749	35,305,253	51,016,313	59,690,619
Power Line and Other	-	-	-	4,872	4,571	5,208	4,776	5,420	5,274	5,197
Total Lines	15,787,647	22,995,444	31,950,574	42,517,810	50,930,245	64,991,653	82,525,450	100,986,136	121,222,347	132,813,984

For data through December 2004, only those providers with at least 250 lines per state were required to file. Some historical data have been revised back through December 2005. See additional notes following Chart 10.

Chart 1
Total High-Speed Lines

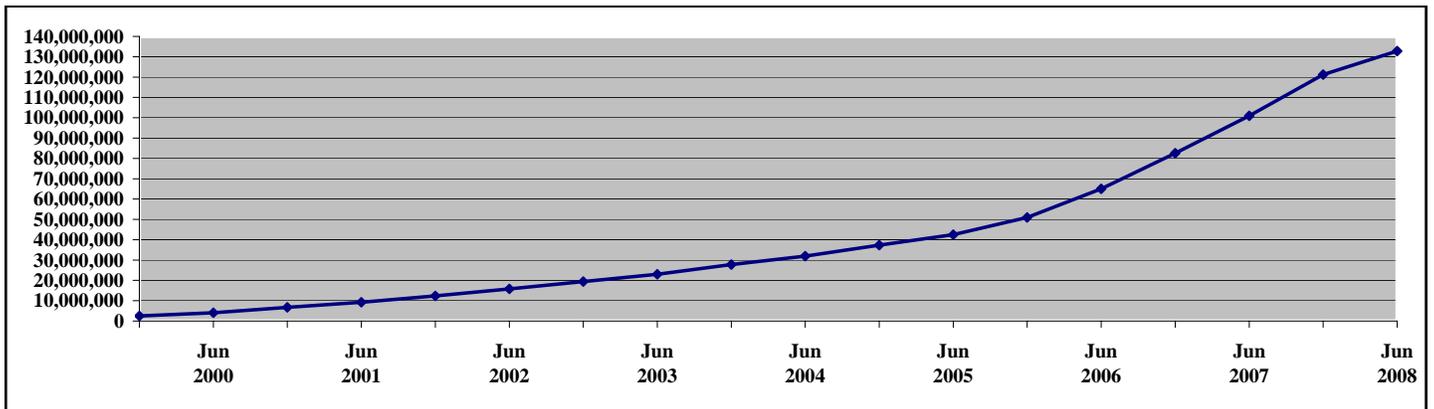


Chart 2
High-Speed Lines by Technology as of June 30, 2008

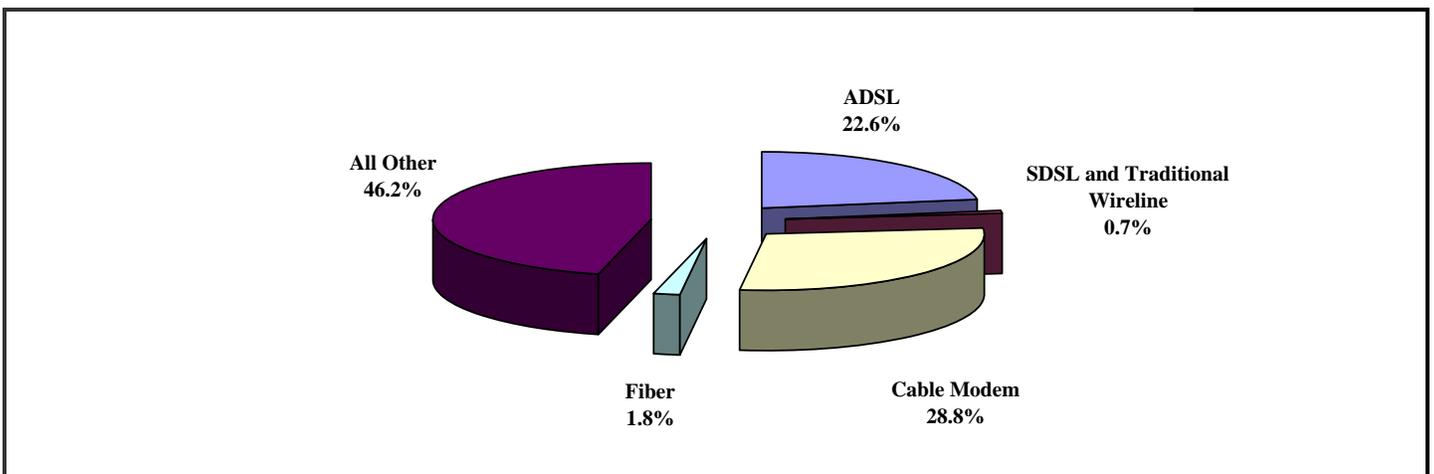


Table 2
Advanced Services Lines¹
(Over 200 kbps in both directions)

Technology ²	2002	2003	2004	2005		2006		2007		2008
	Jun	Jun	Jun	Jun	Dec	Jun	Dec	Jun	Dec	Jun
ADSL	1,852,879	2,536,368	3,768,019	13,176,095	15,921,336	18,310,250	21,143,785	23,656,827	25,243,814	26,132,248
SDSL and Traditional Wireline	1,186,680	1,215,713	1,407,121	869,772	737,192	807,951	888,350	940,971	898,295	939,543
SDSL	-	-	-	387,451	368,736	336,586	344,739	319,352	293,426	274,582
Traditional Wireline	-	-	-	482,321	368,456	471,365	543,611	621,619	604,869	664,961
Cable Modem	6,819,395	11,935,866	17,567,468	22,745,012	26,293,596	28,892,961	31,594,111	33,935,733	36,165,251	37,848,833
Fiber ³	104,015	110,829	129,636	314,229	297,048	545,992	892,637	1,278,906	1,844,767	2,344,477
Satellite and Wireless	66,073	64,393	93,805	223,274	338,635	2,275,313	4,981,768	9,801,348	16,096,448	21,143,958
Satellite	-	-	-	10,966	36,331	27,489	36,026	57,202	73,747	155,312
Fixed Wireless	-	-	-	191,229	220,268	333,368	454,834	554,316	675,489	763,121
Mobile Wireless	-	-	-	21,079	82,036	1,914,456	4,490,908	9,189,830	15,347,212	20,225,525
Power Line and Other	-	-	-	4,174	4,501	5,209	4,776	5,420	5,274	5,197
Total Lines	10,029,042	15,863,169	22,966,048	37,332,557	43,592,308	50,837,676	59,505,427	69,619,205	80,253,849	88,414,256

For data through December 2004, only those providers with at least 250 lines per state were required to file. Some historical data have been revised back through December 2005. See additional notes following Chart 10.

Chart 3
Advanced Services Lines

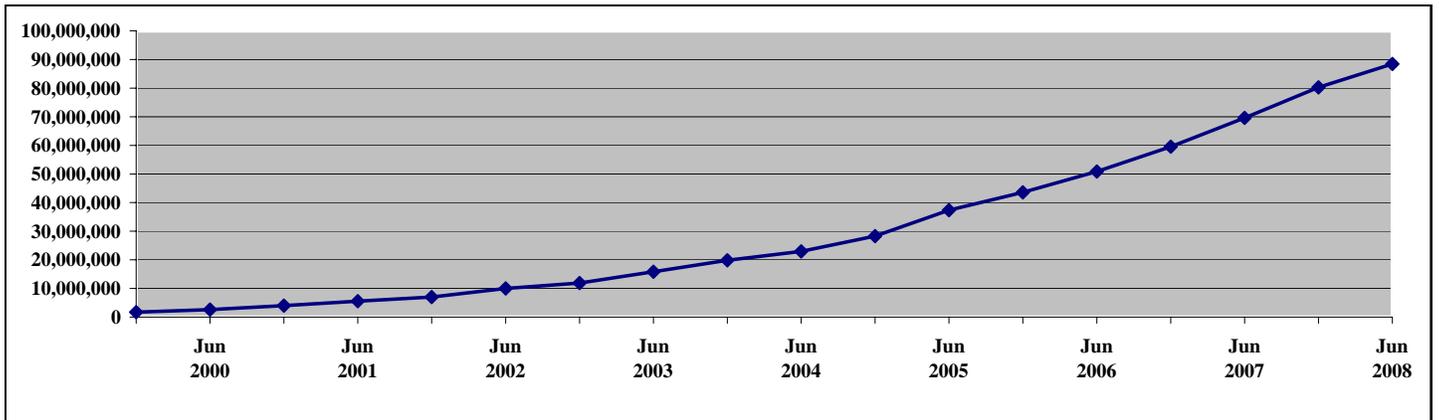


Chart 4
Advanced Services Lines by Technology as of June 30, 2008

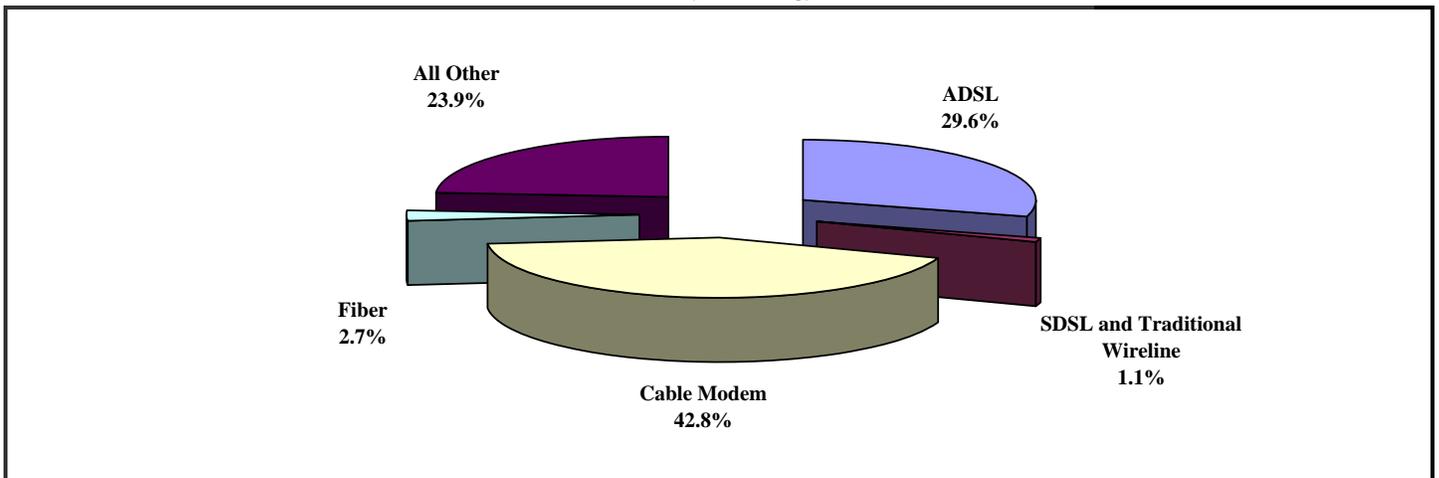


Table 3
Residential High-Speed Lines¹
(Over 200 kbps in at least one direction)

Technology ²	2002	2003	2004	2005		2006		2007		2008
	Jun	Jun	Jun	Jun	Dec	Jun	Dec	Jun	Dec	Jun
ADSL	4,395,033	6,429,938	10,759,495	14,442,823	17,370,508	20,151,612	22,768,119	24,961,878	26,475,392	26,949,947
SDSL and Traditional Wireline	223,599	250,372	393,049	159,489	129,444	112,017	117,708	117,522	99,579	112,689
SDSL	-	-	-	153,978	122,220	102,605	105,012	105,029	82,284	80,971
Traditional Wireline	-	-	-	5,511	7,224	9,412	12,696	12,493	17,295	31,718
Cable Modem	9,157,285	13,660,541	18,525,265	23,578,060	25,714,461	28,387,732	31,118,079	33,336,493	35,341,445	36,900,880
Fiber ³	6,120	16,132	22,719	83,293	213,479	444,147	763,987	1,153,058	1,682,639	2,138,584
Satellite and Wireless	202,251	288,786	387,563	428,367	532,391	1,840,202	3,571,381	6,598,757	10,379,504	12,982,393
Satellite	-	-	-	265,017	320,142	382,047	455,936	530,357	626,466	705,126
Fixed Wireless	-	-	-	160,775	203,179	301,435	423,524	523,180	644,012	741,230
Mobile Wireless	-	-	-	2,574	9,071	1,156,720	2,691,921	5,545,220	9,109,026	11,536,037
Power Line and Other	-	-	-	4,447	4,550	5,093	4,711	5,347	5,159	5,082
Total Lines	13,984,287	20,645,769	30,088,091	38,696,480	43,964,834	50,940,803	58,343,985	66,173,055	73,983,718	79,089,575

For data through December 2004, only those providers with at least 250 lines per state were required to file. Small business lines were included in totals through December 2004. Some historical data have been revised back through December 2005. See additional notes following Chart 10.

Chart 5
Residential High-Speed Lines

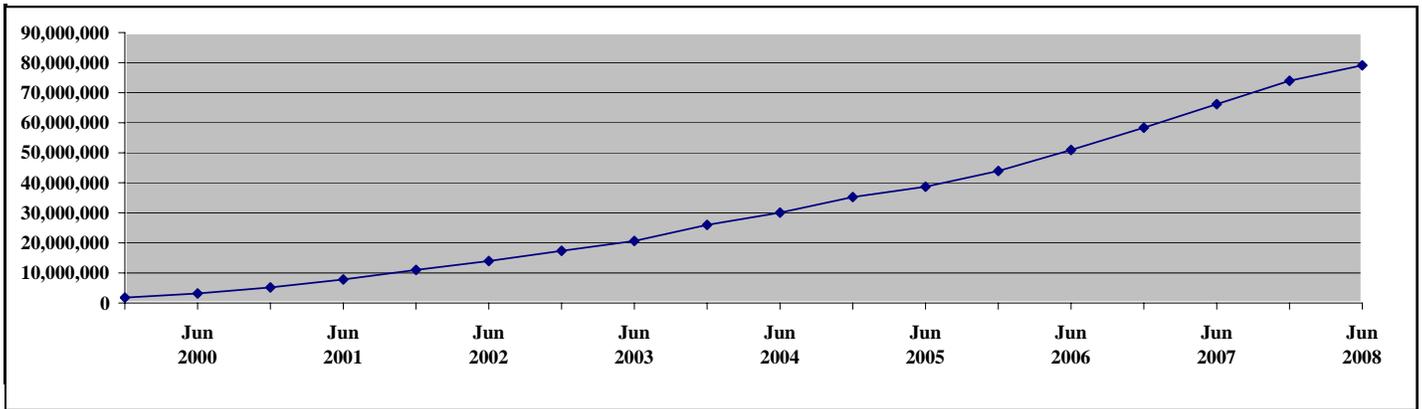


Chart 6
Residential High-Speed Lines by Technology as of June 30, 2008

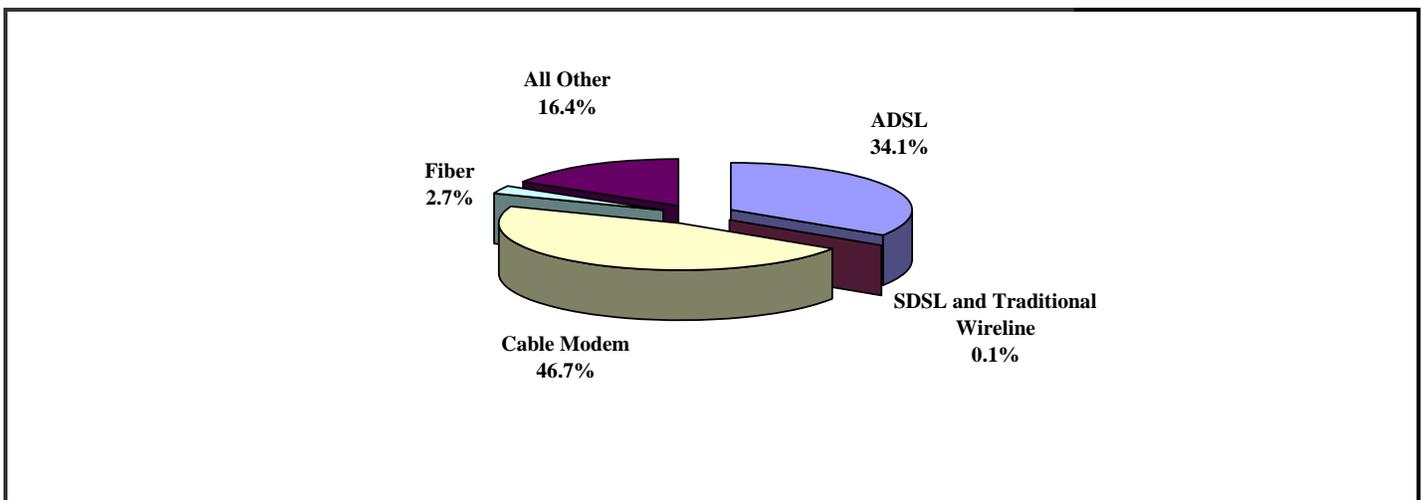


Table 4
Residential Advanced Services Lines ¹
(Over 200 kbps in both directions)

Technology ²	2002	2003	2004	2005		2006		2007		2008
	Jun	Jun	Jun	Jun	Dec	Jun	Dec	Jun	Dec	Jun
ADSL	1,580,575	2,071,779	3,174,022	11,731,303	14,242,291	16,415,844	18,878,492	21,106,148	22,555,534	23,315,454
SDSL and Traditional Wireline	223,599	250,372	393,049	151,979	125,116	111,935	117,652	116,966	99,551	112,667
SDSL	-	-	-	149,862	122,220	102,580	105,002	104,517	82,284	80,971
Traditional Wireline	-	-	-	2,118	2,895	9,355	12,650	12,449	17,267	31,696
Cable Modem	6,809,170	11,920,207	17,505,907	22,324,471	25,533,423	28,159,416	30,770,517	32,916,212	35,035,299	36,600,250
Fiber ³	5,118	15,751	21,866	82,831	212,862	443,248	762,676	1,151,109	1,680,118	2,136,994
Satellite and Wireless	47,787	46,407	72,485	150,893	204,703	1,449,441	3,114,137	6,074,862	9,772,245	12,288,019
Satellite	-	-	-	2,244	25,117	15,055	23,334	35,319	47,743	62,913
Fixed Wireless	-	-	-	146,074	170,515	277,666	398,882	494,341	616,643	700,354
Mobile Wireless	-	-	-	2,574	9,071	1,156,720	2,691,921	5,545,202	9,107,859	11,524,752
Power Line and Other	-	-	-	3,916	4,481	5,093	4,711	5,347	5,159	5,082
Total Lines	8,666,249	14,304,515	21,167,329	34,445,394	40,322,876	46,584,977	53,648,185	61,370,644	69,147,906	74,458,466

For data through December 2004, only those providers with at least 250 lines per state were required to file. Small business lines were included in totals through December 2004. Some historical data have been revised back through December 2005. See additional notes following Chart 10.

Chart 7
Residential Advanced Services Lines

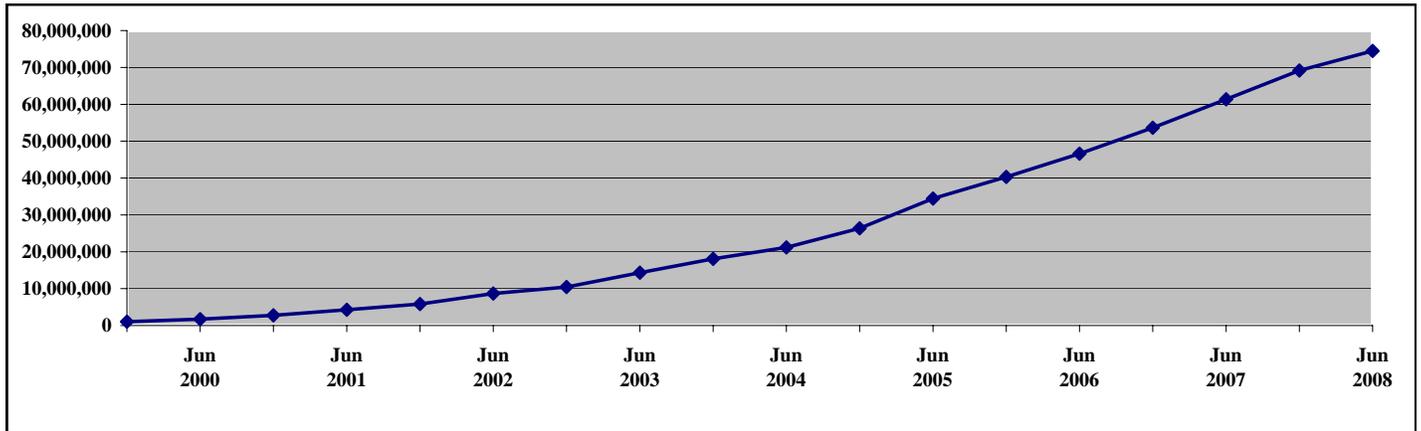


Chart 8
Residential Advanced Services Lines by Technology as of June 30, 2008

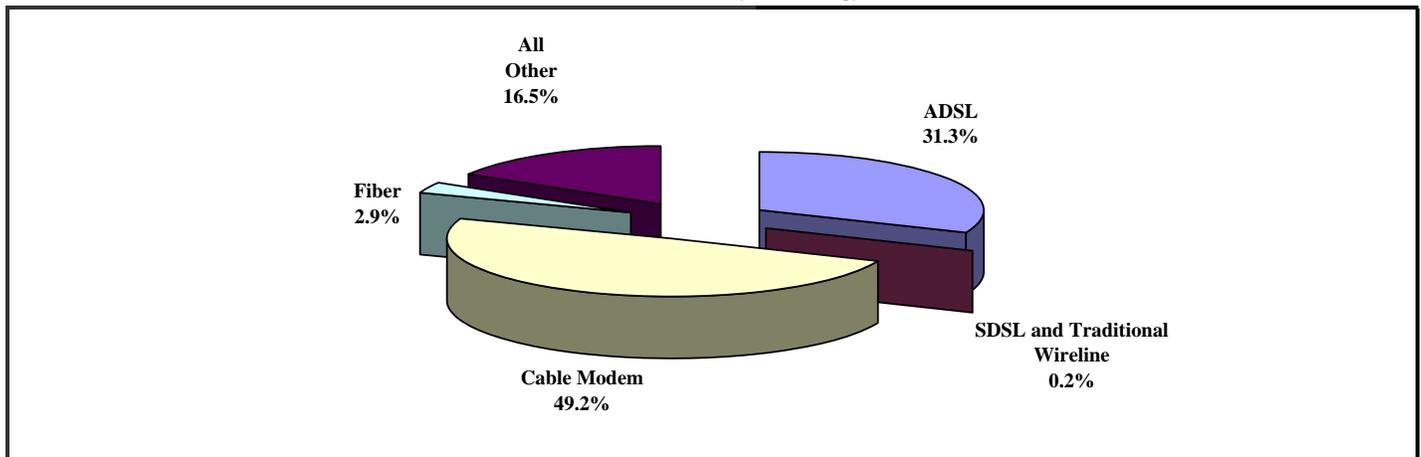


Table 5
High-Speed Lines by Information Transfer Rates ¹
As of June 30, 2008

Technology ²	Exceeding 200 kbps in only one direction	Exceeding 200 kbps in both directions, and:				
		Greater than 200 kbps and less than 2.5 mbps in the faster direction	Greater than or equal to 2.5 mbps and less than 10 mbps in the faster direction	Greater than or equal to 10 mbps and less than 25 mbps in the faster direction	Greater than or equal to 25 mbps and less than 100 mbps in the faster direction	Greater than or equal to 100 mbps in the faster direction
ADSL	3,831,720	13,438,371	12,621,752	72,125	0	0
SDSL	0	261,179	13,119	*	*	0
Traditional Wireline	149	561,427	60,249	8,712	8,095	26,478
Cable Modem	341,522	3,880,514	29,302,547	4,559,560	*	*
Fiber	1,851	139,442	903,130	1,260,683	15,857	25,365
Satellite	714,138	*	*	0	0	0
Fixed Wireless	45,254	713,691	48,429	736	*	*
Mobile Wireless	39,465,094	*	*	*	0	0
Power Line and Other	0	*	*	0	*	0
Total Lines	44,399,728	39,371,371	42,958,483	5,902,037	129,569	52,796

* Data withheld to maintain firm confidentiality.
See notes following Chart 10.

Chart 9
Lines by Information Transfer Rates in the Faster Directions as of June 30, 2008
(Includes only lines exceeding 200 kbps in both directions)

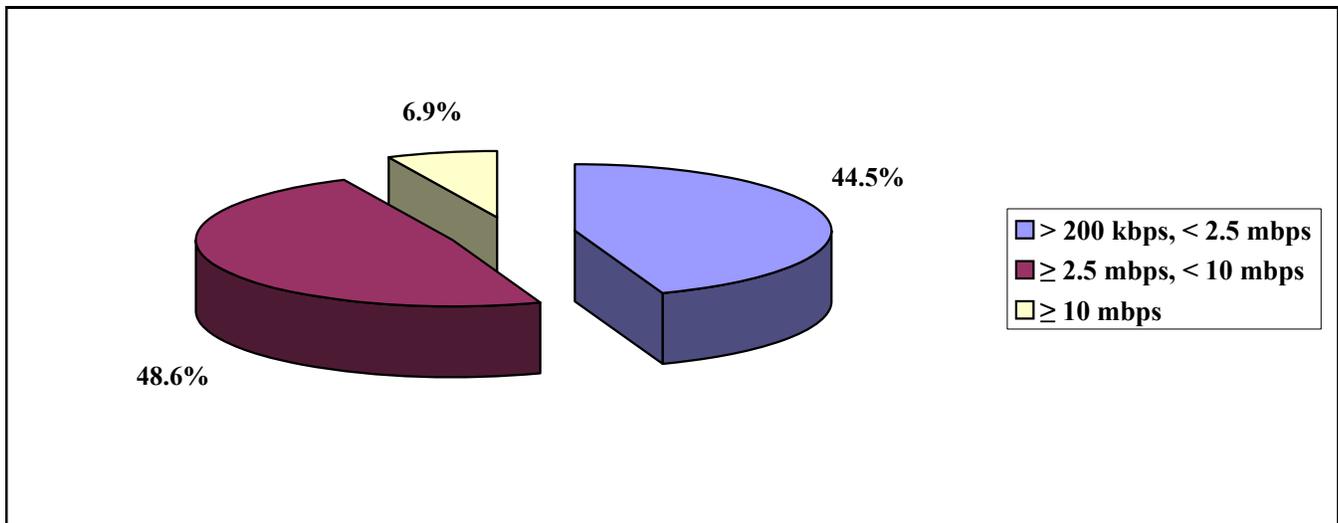


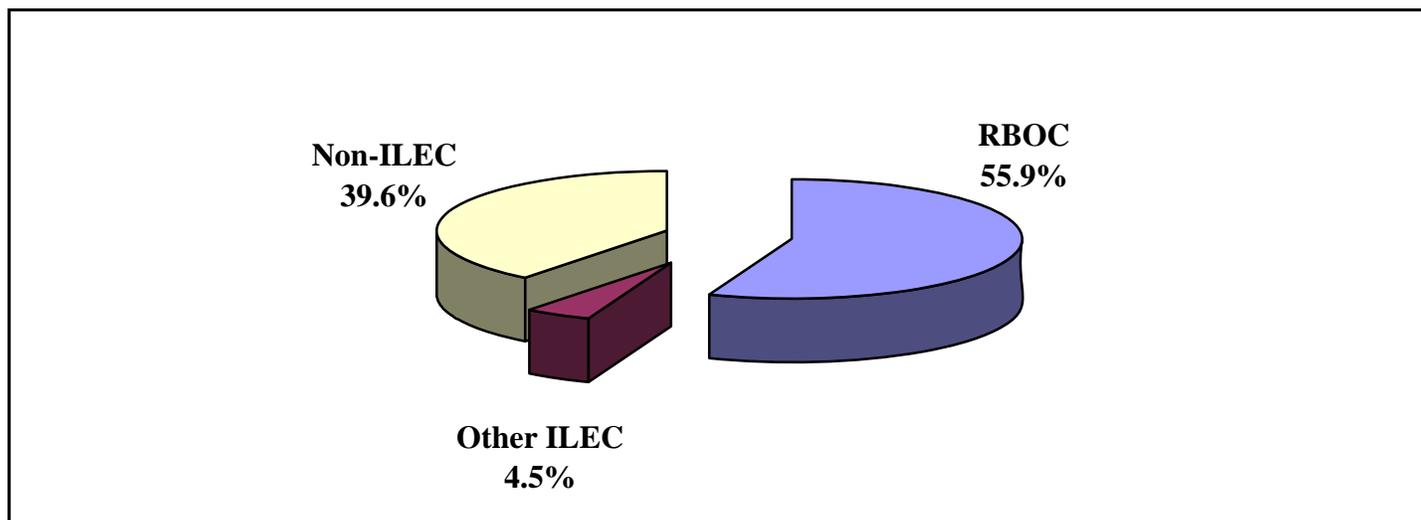
Table 6
High-Speed Lines by Type of Provider as of June 30, 2008¹
(Over 200 kbps in at least one direction)

Technology ²	Lines				Percent of Lines		
	RBOC ⁴	Other ILEC	Non-ILEC ⁵	Total	RBOC ⁴	Other ILEC	Non-ILEC ⁵
ADSL	23,507,656	5,633,473	822,839	29,963,968	78.5 %	18.8 %	2.7 %
SDSL	*	*	193,027	274,582	*	*	70.3
Traditional Wireline	192,234	23,187	449,689	665,110	28.9	3.5	67.6
Cable Modem	*	*	38,088,528	38,190,355	*	*	99.7
Fiber	2,058,460	95,799	192,069	2,346,328	87.7	4.1	8.2
Satellite	0	0	869,450	869,450	0.0	0.0	100.0
Fixed Wireless	*	*	784,732	808,375	*	*	97.1
Mobile Wireless	*	*	11,164,860	59,690,619	*	*	18.7
Power Line and Other	0	0	5,197	5,197	0.0	0.0	100.0
Total Lines	74,287,484	5,956,109	52,570,391	132,813,984	55.9 %	4.5 %	39.6 %

* Data withheld to maintain firm confidentiality.

See notes following Chart 10.

Chart 10
Share of High-Speed Lines by Type of Provider as of June 30, 2008



Notes for Tables 1 - 6 and Charts 1 - 10.

Advanced services lines, residential high-speed lines, and residential advanced services lines are estimated based on data reported on FCC Form 477. Therefore, figures may not add to totals due to rounding.

¹ In this report, high-speed lines are connections to end-user locations that deliver services at speeds exceeding 200 kbps in at least one direction. Advanced services lines, which are a subset of high-speed lines, are connections that deliver services at speeds exceeding 200 kbps in both directions. In Tables 2 and 4, we enumerate those reported high-speed lines that also qualify as advanced services lines. More detailed information about connection speeds is presented in Table 5. Line counts 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 that are delivered over the high-speed connection to that location.

² The mutually exclusive types of technology are, respectively: Asymmetric digital subscriber line (ADSL) technologies, which provide speeds in one direction greater than speeds in the other direction; symmetric digital subscriber line (SDSL) technologies; traditional wireline technologies when used to provide equivalent Internet access functionality, including Ethernet service if delivered to the subscriber's location over copper (as opposed to optical fiber) plant; cable modem, including the typical hybrid fiber-coax (HFC) architecture of upgraded cable TV systems; optical fiber to the subscriber's premises (e.g., Fiber-to-the-Home, or FTTH); satellite and fixed and mobile terrestrial wireless systems, which use radio spectrum to communicate with a radio transmitter; electric power line; and other.

³ Fiber lines included electric power line through December 2004.

⁴ RBOC lines include lines owned by AT&T, Qwest and Verizon, and their affiliates.

⁵ High-speed lines reported by non-ILEC affiliates of RBOCs are reported in the column for RBOC lines and are excluded from the column for non-ILEC lines. Lines reported by non-ILEC affiliates of ILECs other than the RBOCs are reported in the column for non-ILEC lines.

Table 7
Nationwide Number of Providers of High-Speed Lines by Technology
(Over 200 kbps in at least one direction)

	ADSL	Cable Modem	All Other ¹	Total
Dec 1999	28	43	65	105
Jun 2000	47	36	75	116
Dec 2000	68	39	87	136
Jun 2001	86	47	98	160
Dec 2001	117	59	122	203
Jun 2002	142	68	138	237
Dec 2002	178	87	169	299
Jun 2003	235	98	217	378
Dec 2003	274	110	246	432
Jun 2004	298	129	281	485
Dec 2004	352	147	312	552
Jun 2005	758	227	779	1,270
Dec 2005	818	242	833	1,345
Jun 2006	833	254	816	1,327
Dec 2006	858	279	882	1,396
Jun 2007	864	282	874	1,374
Dec 2007	856	292	907	1,399
Jun 2008	863	296	902	1,395

For data through December 2004, only those providers with at least 250 lines per state were required to file. Some historical data have been revised.

¹ All other includes SDSL, traditional wireline, fiber, satellite, fixed and mobile wireless, and power line.

Chart 11
Historical Number of Reporting Providers of High-Speed Lines by Technology

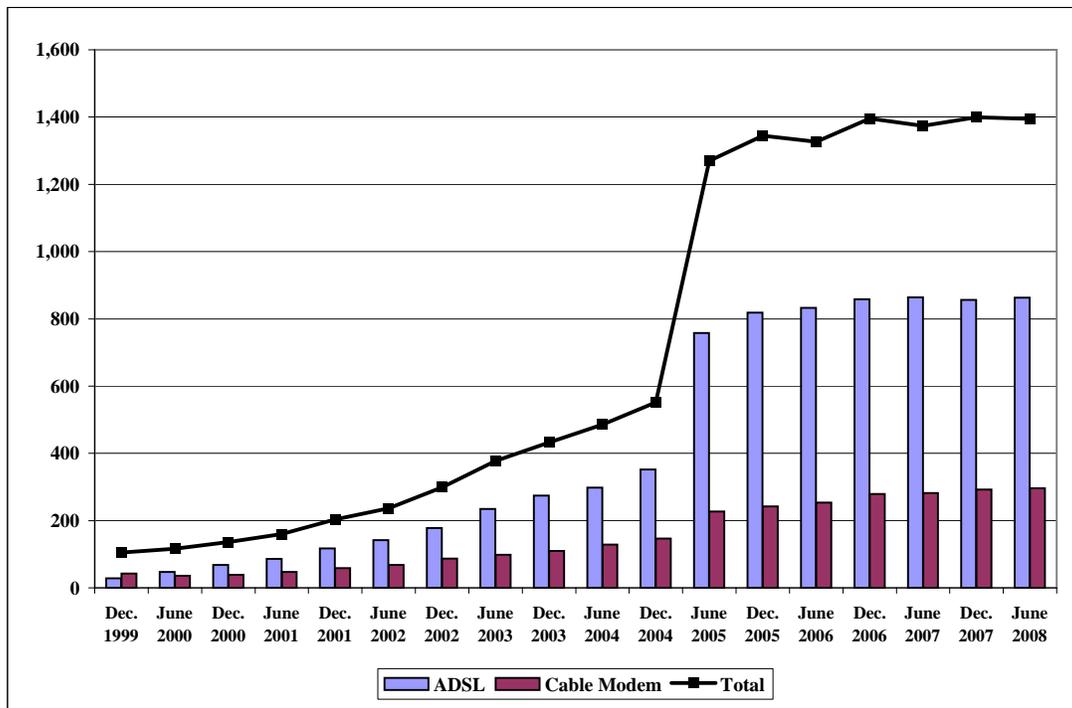


Table 8
Providers of High-Speed Lines by Technology as of June 30, 2008
(Over 200 kbps in at least one direction)

State	ADSL	SDSL	Traditional Wireline	Cable Modem	Fiber	Satellite	Fixed Wireless	Mobile Wireless	Power Line and Other	Total (Unduplicated)
Alabama	32	9	21	19	11	*	5	5	0	73
Alaska	9	6	5	*	*	*	6	*	0	18
American Samoa	*	*	0	0	0	0	*	0	0	*
Arizona	24	7	17	10	13	*	12	5	0	57
Arkansas	22	8	12	11	6	*	*	4	0	49
California	26	16	36	16	16	*	23	4	0	84
Colorado	30	12	21	13	13	*	22	8	0	73
Connecticut	8	8	14	7	8	*	0	*	0	31
Delaware	11	7	19	*	*	*	0	*	0	32
District of Columbia	12	8	18	*	6	*	*	*	0	30
Florida	28	17	42	16	22	*	13	5	*	82
Georgia	40	14	29	27	29	*	7	4	0	89
Guam	*	0	*	*	0	0	0	0	0	*
Hawaii	*	*	6	*	5	*	*	*	0	14
Idaho	24	9	14	7	14	*	16	5	0	53
Illinois	58	20	38	17	15	*	37	5	*	121
Indiana	41	13	29	13	21	*	27	*	*	88
Iowa	130	39	26	35	31	*	57	6	0	192
Kansas	38	15	18	26	19	*	25	4	0	86
Kentucky	31	10	17	19	11	*	12	5	0	75
Louisiana	22	9	20	10	10	*	5	5	0	53
Maine	14	10	11	5	8	*	0	*	0	30
Maryland	16	10	18	12	8	*	*	*	0	44
Massachusetts	16	10	22	6	7	*	4	*	0	43
Michigan	42	13	27	12	15	*	17	5	*	78
Minnesota	69	27	24	13	29	*	14	4	0	101
Mississippi	20	6	19	11	8	*	4	5	0	53
Missouri	44	19	21	18	13	*	26	5	*	92
Montana	18	8	10	4	7	*	11	4	0	38
Nebraska	34	14	11	16	6	*	22	4	0	68
Nevada	17	10	16	4	7	*	7	5	0	41
New Hampshire	15	8	15	6	7	*	*	*	0	37
New Jersey	20	14	34	8	10	*	*	*	0	51
New Mexico	23	7	11	7	6	*	8	5	0	44
New York	43	17	32	14	15	*	9	5	0	80
North Carolina	31	16	27	14	12	*	7	5	0	70
North Dakota	23	13	10	7	10	*	12	*	0	40
Northern Mariana Islands	*	0	*	*	*	0	*	0	0	*
Ohio	43	17	26	19	20	*	19	4	*	86
Oklahoma	39	8	22	10	9	*	17	5	0	77
Oregon	41	10	19	11	15	*	13	4	0	68
Pennsylvania	43	18	37	20	20	*	11	4	0	85
Puerto Rico	*	0	7	*	4	*	4	*	0	15
Rhode Island	10	7	13	*	5	*	0	*	0	25
South Carolina	24	9	19	16	11	*	*	5	0	47
South Dakota	24	9	10	7	11	*	11	*	0	44
Tennessee	29	13	21	13	12	*	7	6	0	72
Texas	66	24	37	25	27	*	50	7	0	137
Utah	16	11	14	4	8	*	10	6	0	44
Vermont	11	4	11	*	4	*	*	*	0	27
Virgin Islands	*	*	*	0	0	*	0	*	0	5
Virginia	27	12	30	13	15	*	12	4	*	68
Washington	30	10	25	16	20	*	21	6	*	77
West Virginia	13	4	11	7	*	*	*	*	0	32
Wisconsin	52	14	18	12	14	*	19	5	*	83
Wyoming	13	7	8	*	6	*	7	4	0	32
Nationwide	863	238	259	296	308	4	505	24	6	1,395

* Indicates one to three providers.

Table 9
High-Speed Lines by Technology as of June 30, 2008
(Over 200 kbps in at least one direction)

State	ADSL	SDSL	Traditional Wireline	Cable Modem	Fiber	Satellite	Fixed Wireless	Mobile Wireless	Power Line and Other	Total
Alabama	430,874	6,108	6,173	417,330	3,187	*	907	*	0	1,524,605
Alaska	72,032	*	493	*	*	*	10,638	*	0	182,545
American Samoa	*	*	0	0	0	0	*	0	0	*
Arizona	454,036	1,375	19,947	991,729	3,201	*	18,315	*	0	2,860,516
Arkansas	266,923	281	2,353	235,655	1,405	*	*	*	0	772,093
California	4,754,973	29,765	107,657	3,798,686	249,526	*	71,008	*	0	18,619,383
Colorado	574,903	2,298	20,163	626,069	3,191	*	30,345	*	0	2,344,512
Connecticut	*	2,936	4,856	575,644	2,642	*	0	*	0	2,002,300
Delaware	*	197	3,080	*	*	*	0	*	0	481,371
District of Columbia	*	1,836	4,010	*	1,276	*	*	*	0	471,514
Florida	2,045,146	7,156	53,096	2,631,022	217,217	*	41,033	*	*	8,157,096
Georgia	1,361,221	5,887	28,238	903,797	8,262	*	386	*	0	3,996,695
Guam	*	0	*	*	0	0	0	0	0	*
Hawaii	*	*	816	*	486	*	*	*	0	643,085
Idaho	153,697	294	1,962	126,634	1,133	*	50,692	*	0	690,599
Illinois	1,418,545	10,850	26,306	1,624,647	7,302	*	31,331	*	*	5,537,923
Indiana	651,097	3,535	9,741	455,929	48,639	*	12,475	*	*	2,479,608
Iowa	321,784	3,792	2,679	308,500	8,359	*	18,516	*	0	1,091,069
Kansas	240,921	4,982	5,906	380,063	5,065	*	16,856	*	0	1,063,920
Kentucky	384,920	4,974	4,873	481,916	3,421	*	3,371	*	0	1,298,038
Louisiana	353,678	1,240	4,760	480,720	19,227	*	2,601	*	0	1,552,888
Maine	120,357	4,038	4,334	196,848	3,368	*	0	*	0	428,904
Maryland	495,132	8,024	17,209	871,044	*	*	*	*	0	2,738,746
Massachusetts	*	5,445	16,700	1,158,976	*	*	1,082	*	0	3,392,831
Michigan	748,563	3,907	15,118	1,306,725	3,130	*	9,470	*	*	3,844,955
Minnesota	528,792	18,731	10,539	621,781	10,596	*	30,333	*	0	2,152,875
Mississippi	219,564	224	2,611	188,062	834	*	168	*	0	584,044
Missouri	712,189	3,978	11,638	517,207	4,154	*	8,835	*	*	2,076,382
Montana	108,083	3,276	931	90,467	701	*	10,107	*	0	476,845
Nebraska	143,036	3,976	1,053	262,073	639	*	14,927	*	0	702,180
Nevada	224,688	3,825	7,730	*	1,314	*	17,944	*	0	1,268,860
New Hampshire	96,781	2,097	4,869	250,233	16,058	*	*	*	0	681,535
New Jersey	699,670	4,250	24,169	1,586,469	*	*	*	*	0	5,338,219
New Mexico	217,072	278	2,402	137,463	1,104	*	3,360	*	0	719,761
New York	1,168,816	18,900	35,880	3,548,486	*	*	7,603	*	0	8,910,527
North Carolina	870,296	2,814	21,060	1,266,151	5,432	*	*	*	0	3,832,927
North Dakota	60,038	2,145	372	82,853	9,297	*	5,166	*	0	321,663
Northern Mariana Isl.	*	0	*	*	*	0	*	0	0	*
Ohio	1,034,335	4,302	17,632	1,626,534	8,951	*	24,317	*	*	5,066,325
Oklahoma	334,105	886	3,748	381,910	3,235	*	5,080	*	0	1,077,215
Oregon	360,993	9,889	5,656	554,284	*	*	28,160	*	0	1,716,959
Pennsylvania	1,208,597	15,479	23,147	1,491,572	*	*	5,134	*	0	5,682,008
Puerto Rico	*	0	4,421	*	313	*	4,860	*	0	582,155
Rhode Island	*	942	1,667	*	*	*	0	*	0	527,728
South Carolina	386,274	392	8,990	517,385	12,993	*	*	*	0	1,779,117
South Dakota	53,343	3,993	261	115,048	7,332	*	6,199	*	0	362,263
Tennessee	534,652	710	12,046	714,610	24,565	*	7,888	*	0	2,767,503
Texas	2,475,277	12,482	48,548	2,214,161	230,859	*	98,670	*	0	9,110,055
Utah	284,487	7,261	6,345	212,474	2,770	*	27,850	*	0	1,108,549
Vermont	72,581	*	2,348	*	416	*	*	*	0	257,065
Virgin Islands	*	*	*	0	0	*	0	*	0	19,441
Virginia	560,616	3,589	24,166	941,193	*	*	15,539	*	*	3,584,485
Washington	600,239	9,179	12,555	943,846	33,542	*	86,546	*	*	3,312,811
West Virginia	146,964	*	3,347	167,237	*	*	*	*	0	371,760
Wisconsin	556,171	15,062	6,093	711,209	4,193	*	12,285	*	*	1,931,916
Wyoming	55,265	1,769	300	*	501	*	3,870	*	0	288,052
Nationwide	29,963,968	274,582	665,110	38,190,355	2,346,328	869,450	808,375	59,690,619	5,197	132,813,984

* Data withheld to maintain firm confidentiality.

Table 10
High-Speed Lines by State
(Over 200 kbps in at least one direction)

State	2003	2004	2005		2006		2007		2008
	Jun	Jun	Jun	Dec	Jun	Dec	Jun	Dec	Jun
Alabama	283,946	350,691	455,300	531,350	615,510	898,850	1,118,302	1,353,777	1,524,605
Alaska	61,121	88,076	95,761	109,484	125,005	145,008	156,187	171,257	182,545
American Samoa	0	*	*	*	*	*	*	*	*
Arizona	441,227	618,677	809,819	1,039,445	1,392,711	1,832,564	2,192,644	2,579,687	2,860,516
Arkansas	128,100	188,185	258,270	299,850	361,150	428,899	526,973	658,867	772,093
California	3,378,373	4,608,822	5,954,876	7,197,952	9,257,609	11,755,654	14,374,803	17,159,597	18,619,383
Colorado	338,083	515,081	688,189	882,669	1,165,853	1,489,091	1,827,962	2,270,584	2,344,512
Connecticut	364,371	516,039	679,891	803,274	1,018,755	1,257,276	1,554,448	1,834,752	2,002,300
Delaware	54,272	74,732	108,554	132,399	157,648	273,734	353,763	438,951	481,371
District of Columbia	58,800	83,213	113,086	139,594	200,221	268,008	337,897	420,305	471,514
Florida	1,634,552	2,236,963	2,958,350	3,537,720	4,408,427	5,346,321	6,349,093	7,416,288	8,157,096
Georgia	748,016	1,039,440	1,328,956	1,610,750	2,054,171	2,547,165	3,087,975	3,737,830	3,996,695
Guam	0	*	*	*	*	*	*	*	*
Hawaii	*	*	*	*	294,612	417,674	486,337	584,113	643,085
Idaho	64,353	99,845	149,023	167,926	202,521	381,283	483,049	613,317	690,599
Illinois	840,632	1,270,907	1,817,481	2,118,882	2,626,276	3,499,144	4,276,554	5,085,232	5,537,923
Indiana	233,679	515,812	742,667	913,528	1,182,578	1,408,019	1,823,221	2,267,190	2,479,608
Iowa	162,257	229,811	325,701	394,359	448,192	657,459	826,632	991,142	1,091,069
Kansas	248,405	322,742	419,384	468,032	596,776	726,742	876,744	989,832	1,063,920
Kentucky	121,594	300,704	408,184	508,198	629,538	774,736	959,771	1,161,750	1,298,038
Louisiana	315,682	420,917	536,934	508,009	730,203	892,835	1,088,803	1,286,504	1,552,888
Maine	85,212	123,739	176,396	214,599	248,440	306,006	359,113	396,271	428,904
Maryland	458,128	655,588	899,640	1,120,826	1,492,484	1,813,960	2,172,522	2,535,778	2,738,746
Massachusetts	802,423	1,004,229	1,213,640	1,431,925	1,811,845	2,243,742	2,660,501	3,140,550	3,392,831
Michigan	729,113	946,819	1,336,312	1,535,124	1,895,666	2,408,866	2,972,374	3,557,337	3,844,955
Minnesota	394,982	561,411	716,826	855,752	1,057,055	1,313,505	1,579,346	1,961,654	2,152,875
Mississippi	95,628	139,429	191,675	219,552	262,671	332,307	399,571	489,438	584,044
Missouri	362,040	537,343	704,273	805,525	1,010,910	1,269,326	1,561,172	1,866,033	2,076,382
Montana	28,023	57,650	90,583	112,662	139,946	264,121	346,230	432,877	476,845
Nebraska	141,172	199,282	253,968	305,120	355,013	470,118	537,693	633,722	702,180
Nevada	209,028	290,518	401,932	471,922	612,101	790,020	1,058,634	1,159,264	1,268,860
New Hampshire	118,304	168,000	236,817	268,128	302,957	443,207	539,686	637,977	681,535
New Jersey	924,835	1,194,557	1,605,301	1,989,803	2,654,674	3,392,607	4,153,343	4,923,622	5,338,219
New Mexico	71,355	115,147	174,534	204,054	252,361	422,964	544,706	662,246	719,761
New York	1,891,457	2,349,956	3,067,983	3,660,500	4,854,803	5,669,523	6,800,348	8,097,191	8,910,527
North Carolina	680,828	965,761	1,222,648	1,482,930	1,914,822	2,366,079	2,893,582	3,484,798	3,832,927
North Dakota	25,474	39,274	86,274	96,314	108,476	131,348	144,994	292,100	321,663
Northern Mariana Isl.	0	0	0	*	*	*	*	*	*
Ohio	817,020	1,152,300	1,601,981	1,909,661	2,439,297	3,179,003	3,947,240	4,612,350	5,066,325
Oklahoma	231,106	331,605	444,777	498,640	565,528	654,283	777,999	971,167	1,077,215
Oregon	316,300	437,040	558,489	688,487	860,385	1,060,386	1,285,947	1,566,919	1,716,959
Pennsylvania	755,947	1,123,876	1,578,981	1,999,118	2,646,898	3,374,313	4,121,608	5,148,887	5,682,008
Puerto Rico	32,063	43,091	66,484	118,268	169,917	251,163	332,671	471,560	582,155
Rhode Island	104,444	141,981	185,415	221,901	276,141	349,994	416,053	490,649	527,728
South Carolina	262,868	354,877	464,315	549,019	646,344	1,041,762	1,308,281	1,586,082	1,779,117
South Dakota	22,016	34,026	112,506	124,243	138,621	154,738	164,627	185,058	362,263
Tennessee	413,476	534,597	682,369	847,025	1,153,432	1,573,978	2,036,625	2,519,234	2,767,503
Texas	1,571,250	2,203,490	2,943,487	3,451,702	4,343,050	5,540,763	6,964,956	8,337,020	9,110,055
Utah	133,467	196,590	259,150	313,854	471,137	638,618	818,665	998,847	1,108,549
Vermont	39,773	56,033	82,279	95,901	108,622	170,245	193,151	240,257	257,065
Virgin Islands	*	*	2,183	2,967	7,226	11,139	16,014	18,996	19,441
Virginia	553,635	817,881	1,117,591	1,367,465	1,792,817	2,197,693	2,689,907	3,279,808	3,584,485
Washington	577,378	775,027	1,000,412	1,219,631	1,575,375	2,015,564	2,481,537	3,115,075	3,312,811
West Virginia	90,173	127,283	178,323	205,984	245,669	268,746	306,449	336,321	371,760
Wisconsin	401,565	564,670	731,934	844,961	1,018,482	1,235,500	1,485,891	1,766,448	1,931,916
Wyoming	17,507	35,464	55,905	70,574	83,086	156,940	205,711	260,310	288,052
Nationwide	22,995,444	31,950,574	42,517,810	50,930,245	64,991,653	82,525,450	100,986,136	121,222,347	132,813,984

* Data withheld to maintain firm confidentiality.

Some historical data have been revised back through December 2005.

Table 11
ADSL High-Speed Lines by State
(Over 200 kbps in at least one direction)

State	2003	2004	2005		2006		2007		2008
	Jun	Jun	Jun	Dec	Jun	Dec	Jun	Dec	Jun
Alabama	70,639	112,059	177,196	220,657	268,970	314,640	356,830	402,603	430,874
Alaska	14,013	20,686	38,530	43,249	53,687	60,055	63,708	67,938	72,032
American Samoa	0	0	*	*	*	*	*	*	*
Arizona	77,368	108,735	152,937	207,727	276,261	365,228	405,724	436,857	454,036
Arkansas	44,801	80,981	127,445	149,878	180,883	200,129	226,842	248,908	266,923
California	1,715,998	2,342,186	3,078,824	3,592,220	4,001,529	4,342,556	4,626,442	4,780,051	4,754,973
Colorado	126,189	201,523	268,114	333,313	404,989	473,148	529,504	573,387	574,903
Connecticut	124,742	204,034	*	*	*	*	*	*	*
Delaware	*	10,572	*	*	*	*	*	*	*
District of Columbia	39,471	44,231	*	*	*	*	*	*	*
Florida	644,621	928,402	1,284,507	1,509,104	1,722,888	1,873,271	1,960,025	2,046,084	2,045,146
Georgia	368,372	535,088	757,720	890,128	1,008,705	1,126,082	1,218,885	1,307,237	1,361,221
Guam	0	*	*	*	*	*	*	*	*
Hawaii	*	*	*	*	*	*	*	*	*
Idaho	19,382	35,166	62,691	81,520	97,662	113,001	129,188	142,440	153,697
Illinois	363,733	588,906	847,522	979,709	1,094,088	1,211,763	1,300,003	1,382,195	1,418,545
Indiana	85,968	179,942	304,800	379,465	443,473	515,054	583,797	635,507	651,097
Iowa	39,386	65,580	118,777	150,890	189,178	233,396	270,637	298,322	321,784
Kansas	50,839	88,246	136,402	159,996	179,430	202,751	224,843	235,919	240,921
Kentucky	75,316	119,709	180,324	213,131	250,715	303,296	340,350	367,452	384,920
Louisiana	100,919	136,406	190,603	207,488	235,750	270,811	306,283	333,076	353,678
Maine	11,052	31,577	52,032	72,709	89,964	104,780	115,261	117,570	120,357
Maryland	126,873	192,139	305,677	379,316	450,019	489,553	512,156	513,529	495,132
Massachusetts	207,344	253,576	*	*	*	*	*	*	*
Michigan	135,360	236,310	374,861	463,373	533,835	606,616	689,536	732,950	748,563
Minnesota	115,244	159,137	227,988	276,439	330,736	394,686	449,452	496,317	528,792
Mississippi	33,650	52,892	88,252	105,874	128,585	154,179	180,281	202,262	219,564
Missouri	138,046	233,916	341,618	398,671	468,334	545,679	618,302	682,572	712,189
Montana	13,119	28,238	46,786	57,300	70,471	82,876	95,790	102,231	108,083
Nebraska	18,285	35,180	66,268	81,188	95,404	112,032	124,126	135,305	143,036
Nevada	47,934	74,879	116,395	139,938	168,086	190,202	207,051	220,409	224,688
New Hampshire	17,823	31,843	54,233	71,689	85,247	93,589	98,283	99,602	96,781
New Jersey	211,540	301,789	443,808	540,382	638,293	703,950	734,700	734,903	699,670
New Mexico	26,948	51,375	82,062	105,210	130,998	156,620	179,856	200,497	217,072
New York	438,241	536,980	736,769	861,452	1,002,972	1,103,960	1,181,851	1,184,011	1,168,816
North Carolina	161,642	264,248	412,991	488,533	561,102	648,001	724,936	820,334	870,296
North Dakota	11,593	19,412	26,841	32,000	38,729	46,346	51,096	55,635	60,038
Northern Mariana Isl.	0	0	0	*	*	*	*	*	*
Ohio	243,689	369,386	555,749	663,011	752,633	858,846	950,969	1,024,412	1,034,335
Oklahoma	78,248	129,996	189,496	222,048	246,899	277,282	301,523	323,685	334,105
Oregon	95,654	142,483	197,927	244,694	280,286	311,604	338,765	355,563	360,993
Pennsylvania	230,322	346,720	541,274	692,079	871,164	1,012,845	1,125,794	1,191,348	1,208,597
Puerto Rico	*	*	*	*	*	*	*	*	*
Rhode Island	*	*	*	*	*	*	*	*	*
South Carolina	52,667	98,583	154,666	205,529	242,548	284,892	322,858	359,439	386,274
South Dakota	8,637	15,230	20,632	26,168	32,763	39,684	45,772	48,386	53,343
Tennessee	92,777	147,922	237,180	293,915	348,344	396,928	446,551	499,164	534,652
Texas	597,447	930,997	1,300,681	1,513,639	1,732,716	1,996,752	2,293,905	2,463,911	2,475,277
Utah	65,648	95,656	129,607	160,313	189,240	222,307	249,683	269,785	284,487
Vermont	15,072	22,519	35,281	43,934	51,382	61,441	68,041	72,006	72,581
Virgin Islands	*	*	*	*	*	*	*	*	*
Virginia	114,797	196,568	308,947	384,243	446,448	505,285	547,941	568,284	560,616
Washington	225,377	300,804	363,796	427,451	491,409	533,668	569,397	592,133	600,239
West Virginia	*	*	53,292	69,390	86,507	104,637	123,645	137,948	146,964
Wisconsin	84,100	159,167	243,370	298,111	359,530	417,510	483,750	528,196	556,171
Wyoming	5,503	13,510	23,769	33,030	38,541	44,347	49,933	52,602	55,265
Nationwide	7,675,114	11,398,199	16,316,309	19,515,483	22,583,548	25,412,509	27,792,800	29,449,166	29,963,968

* Data withheld to maintain firm confidentiality.

Some historical data have been revised back through June 2006.

Table 12
Coaxial Cable High-Speed Lines by State
(Over 200 kbps in at least one direction)

State	2003	2004	2005		2006		2007		2008
	Jun	Jun	Jun	Dec	Jun	Dec	Jun	Dec	Jun
Alabama	181,338	206,208	257,225	285,177	310,548	342,340	374,029	398,840	417,330
Alaska	*	*	*	*	*	*	*	*	*
American Samoa	0	0	0	0	0	0	0	0	0
Arizona	319,272	457,869	583,897	679,284	761,419	838,455	850,307	896,746	991,729
Arkansas	*	95,528	117,953	137,105	148,940	183,503	205,349	214,028	235,655
California	1,395,435	1,929,080	2,467,232	2,734,659	2,956,932	3,155,718	3,410,983	3,603,105	3,798,686
Colorado	181,766	280,909	383,154	433,184	476,463	523,159	560,557	604,247	626,069
Connecticut	227,658	299,176	372,346	403,723	441,092	454,348	513,211	550,019	575,644
Delaware	*	*	*	*	*	*	*	*	*
District of Columbia	*	*	*	*	*	*	*	*	*
Florida	867,513	1,171,641	1,559,592	1,757,875	1,939,409	2,178,484	2,344,445	2,543,384	2,631,022
Georgia	289,922	407,038	522,800	583,884	649,583	742,552	802,047	862,212	903,797
Guam	0	0	0	0	0	0	0	*	*
Hawaii	*	*	*	*	*	*	*	*	*
Idaho	*	*	78,185	73,528	75,185	108,595	116,273	123,067	126,634
Illinois	383,069	589,025	841,737	955,518	1,042,272	1,332,023	1,465,869	1,570,281	1,624,647
Indiana	122,338	304,866	397,481	445,420	490,020	370,200	410,438	439,417	455,929
Iowa	111,748	151,299	186,821	219,803	225,190	234,266	267,712	287,011	308,500
Kansas	181,437	209,233	258,856	272,660	316,866	320,638	351,371	368,988	380,063
Kentucky	23,672	154,567	217,302	269,274	306,487	333,339	383,593	434,900	481,916
Louisiana	189,920	257,405	328,675	254,819	378,613	419,735	446,485	485,349	480,720
Maine	*	*	116,203	132,075	145,831	152,291	169,458	179,398	196,848
Maryland	306,442	433,754	546,576	592,283	637,405	781,120	829,473	864,763	871,044
Massachusetts	564,961	704,956	826,351	885,578	954,812	1,044,333	1,088,170	1,135,807	1,158,976
Michigan	543,336	656,263	891,842	953,786	1,019,338	1,103,040	1,197,105	1,265,384	1,306,725
Minnesota	255,988	358,477	440,726	493,783	517,018	541,116	570,874	607,772	621,781
Mississippi	50,234	72,271	95,805	104,363	114,140	135,965	151,539	166,092	188,062
Missouri	191,658	266,493	323,270	353,331	400,808	444,118	473,449	497,878	517,207
Montana	*	22,856	35,625	45,442	54,056	65,238	74,246	83,006	90,467
Nebraska	111,903	142,555	177,074	200,600	218,335	239,465	238,019	251,699	262,073
Nevada	*	*	*	*	*	*	*	*	*
New Hampshire	95,612	129,024	176,033	188,212	201,873	209,781	229,855	239,605	250,233
New Jersey	690,620	862,834	1,107,751	1,205,182	1,312,433	1,385,953	1,473,709	1,538,490	1,586,469
New Mexico	38,004	56,369	78,035	89,003	100,157	108,906	117,336	126,692	137,463
New York	1,401,322	1,752,189	2,216,153	2,444,565	2,765,476	2,967,028	3,164,178	3,341,913	3,548,486
North Carolina	454,272	623,414	762,203	861,990	963,651	1,040,513	1,134,075	1,195,757	1,266,151
North Dakota	10,066	14,428	50,781	54,772	57,722	70,878	76,353	79,755	82,853
Northern Mariana Isl.	0	0	0	0	0	0	0	*	*
Ohio	508,458	709,145	961,119	1,064,948	1,184,924	1,303,470	1,405,899	1,498,317	1,626,534
Oklahoma	*	*	233,993	261,585	284,184	312,500	347,813	372,867	381,910
Oregon	197,794	262,513	335,847	375,351	407,195	452,517	489,902	531,258	554,284
Pennsylvania	482,471	724,101	962,149	1,074,912	1,164,080	1,255,720	1,271,157	1,398,950	1,491,572
Puerto Rico	*	*	*	*	*	*	*	*	*
Rhode Island	*	*	*	*	*	*	*	*	*
South Carolina	185,083	228,648	290,233	326,370	368,338	417,584	459,110	496,188	517,385
South Dakota	9,156	12,114	83,667	88,812	92,860	100,155	100,903	111,009	115,048
Tennessee	277,579	340,883	422,063	460,235	506,143	601,889	662,520	702,891	714,610
Texas	888,595	1,162,797	1,467,804	1,617,513	1,692,433	1,944,069	2,081,963	2,183,062	2,214,161
Utah	*	*	*	*	*	*	*	*	212,474
Vermont	*	*	*	*	*	*	*	*	*
Virgin Islands	0	0	0	0	0	0	0	0	0
Virginia	404,616	579,580	748,694	817,100	892,955	877,235	906,252	921,438	941,193
Washington	313,915	426,487	585,125	660,159	725,832	806,126	862,049	909,108	943,846
West Virginia	73,263	97,463	117,538	128,133	145,450	144,569	155,867	158,921	167,237
Wisconsin	287,519	371,106	446,840	497,262	542,881	591,981	636,675	675,737	711,209
Wyoming	*	*	*	*	*	*	*	*	*
Nationwide	13,684,225	18,592,636	24,017,442	26,558,206	29,173,449	31,981,705	34,404,368	36,506,972	38,190,355

* Data withheld to maintain firm confidentiality.
Some historical data have been revised.

Table 13
High-Speed Lines by Type of End User as of June 30, 2008
(Over 200 kbps in at least one direction)

State	Residential	Business	Total
Alabama	909,945	614,660	1,524,605
Alaska	156,793	25,752	182,545
American Samoa	*	*	*
Arizona	1,575,252	1,285,264	2,860,516
Arkansas	612,182	159,911	772,093
California	10,406,479	8,212,904	18,619,383
Colorado	1,315,361	1,029,151	2,344,512
Connecticut	1,135,798	866,502	2,002,300
Delaware	240,153	241,218	481,371
District of Columbia	191,505	280,009	471,514
Florida	5,425,497	2,731,599	8,157,096
Georgia	2,402,283	1,594,412	3,996,695
Guam	*	*	*
Hawaii	378,477	264,608	643,085
Idaho	343,184	347,415	690,599
Illinois	3,471,815	2,066,108	5,537,923
Indiana	1,274,862	1,204,746	2,479,608
Iowa	632,294	458,775	1,091,069
Kansas	721,808	342,112	1,063,920
Kentucky	932,158	365,880	1,298,038
Louisiana	1,111,304	441,584	1,552,888
Maine	309,458	119,446	428,904
Maryland	1,767,213	971,533	2,738,746
Massachusetts	1,946,046	1,446,785	3,392,831
Michigan	2,262,822	1,582,133	3,844,955
Minnesota	1,288,882	863,993	2,152,875
Mississippi	435,193	148,851	584,044
Missouri	1,496,075	580,307	2,076,382
Montana	198,534	278,311	476,845
Nebraska	431,124	271,056	702,180
Nevada	780,141	488,719	1,268,860
New Hampshire	363,328	318,207	681,535
New Jersey	2,716,982	2,621,237	5,338,219
New Mexico	374,043	345,718	719,761
New York	5,470,914	3,439,613	8,910,527
North Carolina	2,280,220	1,552,707	3,832,927
North Dakota	145,593	176,070	321,663
Northern Mariana Islands	*	*	*
Ohio	2,838,688	2,227,637	5,066,325
Oklahoma	880,666	196,549	1,077,215
Oregon	1,081,837	635,122	1,716,959
Pennsylvania	3,097,119	2,584,889	5,682,008
Puerto Rico	501,072	81,083	582,155
Rhode Island	297,643	230,085	527,728
South Carolina	942,688	836,429	1,779,117
South Dakota	170,380	191,883	362,263
Tennessee	1,346,820	1,420,683	2,767,503
Texas	6,198,779	2,911,276	9,110,055
Utah	552,567	555,982	1,108,549
Vermont	136,780	120,285	257,065
Virgin Islands	17,576	1,865	19,441
Virginia	1,900,624	1,683,861	3,584,485
Washington	1,783,539	1,529,272	3,312,811
West Virginia	314,072	57,688	371,760
Wisconsin	1,384,836	547,080	1,931,916
Wyoming	116,661	171,391	288,052
Nationwide	79,089,575	53,724,409	132,813,984

* Data withheld to maintain firm confidentiality.

Table 14

Percentage of Residential End-User Premises with Access to High-Speed Services as of June 30, 2008

State	xDSL Availability Where ILECs Offer Local Telephone Service	Cable Modem Availability Where Cable Systems Offer Cable TV Service
Alabama	77%	93%
Alaska	75%	*
American Samoa	*	0%
Arizona	84%	99%
Arkansas	77%	74%
California	89%	99%
Colorado	89%	96%
Connecticut	*	100%
Delaware	*	*
District of Columbia	*	*
Florida	89%	98%
Georgia	93%	90%
Guam	*	*
Hawaii	*	*
Idaho	80%	99%
Illinois	85%	97%
Indiana	81%	91%
Iowa	86%	90%
Kansas	83%	91%
Kentucky	88%	89%
Louisiana	83%	97%
Maine	71%	93%
Maryland	75%	98%
Massachusetts	*	100%
Michigan	73%	99%
Minnesota	86%	96%
Mississippi	76%	92%
Missouri	80%	97%
Montana	78%	88%
Nebraska	86%	93%
Nevada	87%	*
New Hampshire	62%	99%
New Jersey	86%	100%
New Mexico	85%	79%
New York	79%	99%
North Carolina	85%	95%
North Dakota	89%	82%
Northern Mariana Isl.	*	*
Ohio	85%	98%
Oklahoma	80%	92%
Oregon	83%	95%
Pennsylvania	84%	94%
Puerto Rico	*	*
Rhode Island	*	*
South Carolina	84%	93%
South Dakota	80%	81%
Tennessee	83%	96%
Texas	80%	96%
Utah	89%	88%
Vermont	71%	*
Virgin Islands	*	0%
Virginia	65%	97%
Washington	83%	98%
West Virginia	69%	85%
Wisconsin	82%	96%
Wyoming	81%	*
Nationwide	83%	96%

* Data withheld to maintain firm confidentiality.

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. Reported cable modem availability is weighted by cable TV subscribers. The weighted averages include ILECs or cable system operators that report no availability.

Table 15
Percentage of Zip Codes with High-Speed Lines in Service

Number of Providers	2001		2002		2003		2004		2005		2006		2007		2008
	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun
Zero	22.2 %	20.6 %	16.1 %	12.0 %	9.0 %	6.8 %	5.7 %	4.6 %	2.0 %	1.0 %	0.7 %	0.4 %	0.1 %	0.2 %	0.0 %
One	20.3	19.3	18.4	17.3	16.4	14.9	13.8	12.5	9.3	5.6	3.7	2.4	0.9	1.3	0.3
Two	16.7	15.7	16.2	16.8	16.9	17.1	16.8	16.3	14.1	11.9	8.2	5.7	3.6	3.8	1.5
Three	13.2	13.1	13.3	14.4	14.0	14.9	14.9	15.1	15.0	14.8	11.3	8.9	7.0	6.7	3.7
Four	8.2	9.1	9.6	10.3	10.6	11.2	11.6	12.2	12.6	13.5	12.9	11.4	11.1	10.3	7.2
Five	4.9	6.1	6.9	7.3	7.7	7.8	8.4	8.9	9.7	10.3	12.2	12.5	13.6	12.8	10.8
Six	3.6	4.2	4.6	5.0	5.3	5.8	6.1	6.3	6.8	7.8	10.4	11.7	13.0	13.4	13.4
Seven	2.8	3.2	3.2	3.9	4.0	4.2	4.4	4.6	5.3	5.7	8.7	10.0	11.6	11.2	12.7
Eight	2.2	2.5	2.8	2.7	3.1	3.3	3.6	3.6	4.0	4.6	7.1	8.3	9.1	9.0	9.9
Nine	1.9	2.0	2.4	2.2	2.5	2.6	2.8	3.1	3.8	4.0	5.8	6.7	7.4	7.4	7.4
Ten or More	3.9	4.0	6.4	8.0	10.5	11.4	11.8	12.8	17.5	20.7	19.1	22.0	22.7	23.8	33.2

For data through December 2004, only those providers with at least 250 lines per state were required to file. Figures may not add up to 100% due to rounding.

Chart 12
Percent of Zip Codes with High-Speed Providers

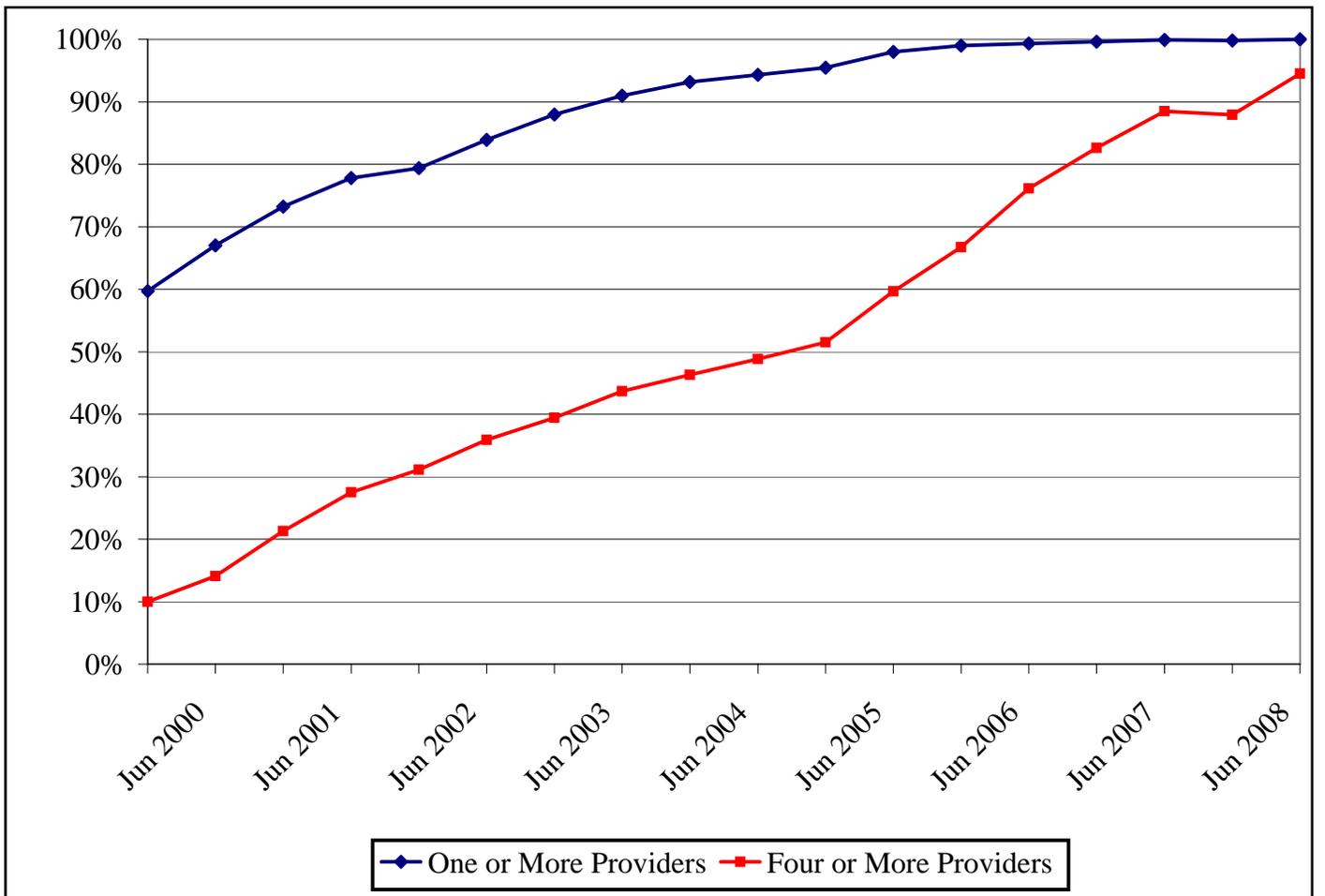


Table 16
Percentage of Zip Codes with High-Speed Lines in Service by Technology as of June 30, 2008

Technology	Number of Providers										
	Zero	One	Two	Three	Four	Five	Six	Seven	Eight	Nine	Ten or More
ADSL	12.8	38.0	20.8	10.9	6.8	5.0	2.7	1.7	0.8	0.3	0.2
SDSL	61.3	20.0	7.3	5.1	3.5	1.7	0.7	0.2	0.1	0.0	0.0
Cable Modem	32.8	57.1	9.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fiber	62.3	19.5	10.3	5.1	1.9	0.6	0.2	0.0	0.0	0.0	0.0
Satellite	6.5	20.8	53.6	19.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fixed Wireless	71.8	21.1	5.6	1.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Mobile Wireless	0.6	6.0	34.1	47.3	11.4	0.5	0.0	0.0	0.0	0.0	0.0
Power Line and/or Other ¹	43.2	17.6	9.4	6.3	5.0	4.3	3.7	2.9	2.7	1.8	3.2
ADSL and/or Cable Modem	8.6	23.3	22.3	16.2	10.4	7.2	5.2	3.4	1.9	1.0	0.7
All Technologies	0.0	0.3	1.5	3.7	7.2	10.8	13.4	12.7	9.9	7.4	33.2

Figures may not add up to 100% due to rounding.

¹ Other includes high-speed lines provided over traditional wireline facilities such as T-carrier and also lines provided over any technology that is not specified in the table.

High-Speed Providers by 5-Digit Geographical ZIP Code

(As of June 30, 2008)

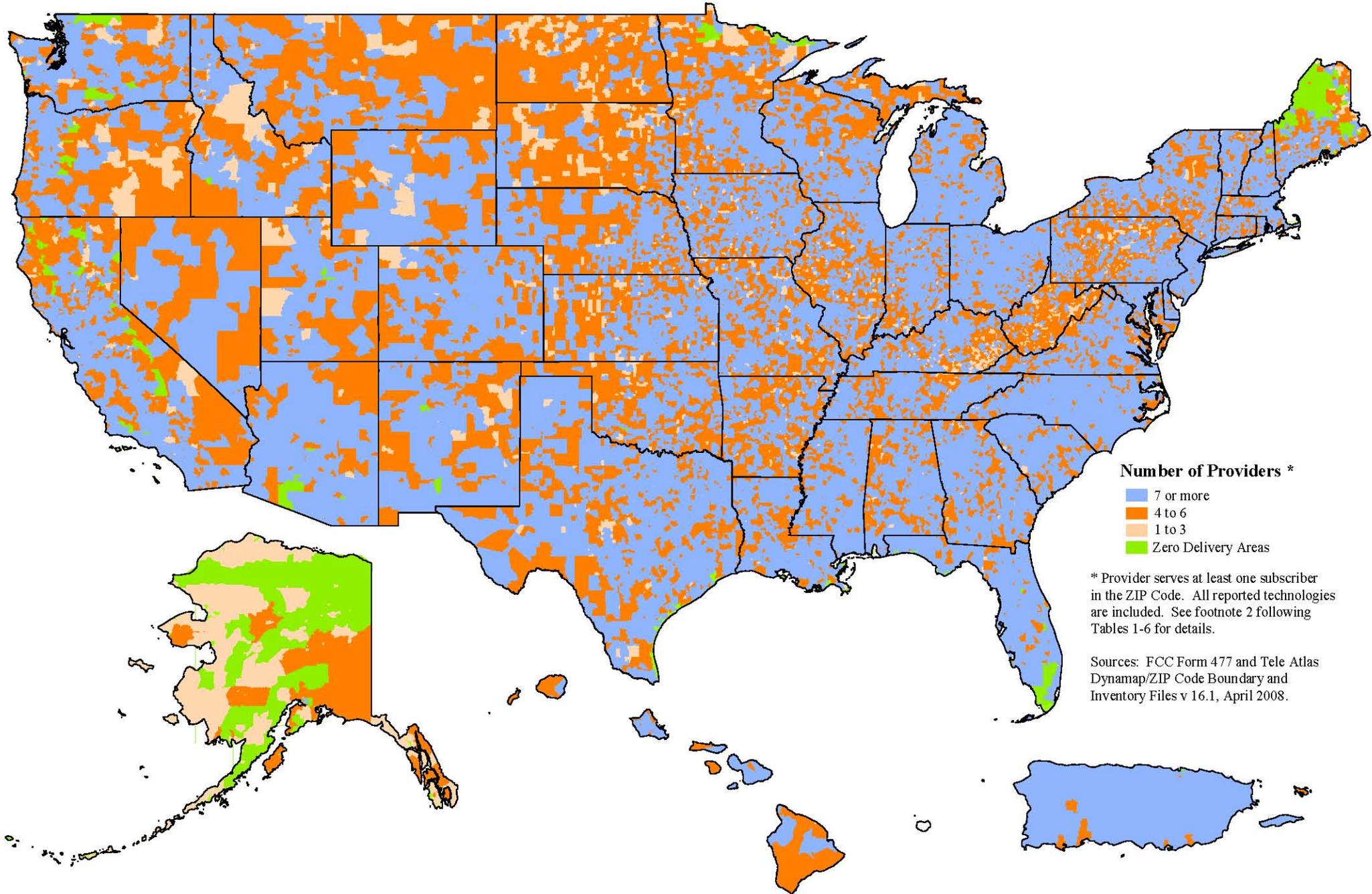


Table 17
Percentage of Zip Codes with High-Speed Lines in Service as of June 30, 2008
(Over 200 kbps in at least one direction)

	Number of Providers										
	Zero	One	Two	Three	Four	Five	Six	Seven	Eight	Nine	Ten or More
Alabama	0 %	0 %	1 %	2 %	3 %	8 %	17 %	16 %	15 %	8 %	30 %
Alaska	0	12	37	21	17	4	3	0	3	1	0
Arizona	0	0	0	1	2	6	8	10	8	7	57
Arkansas	0	0	2	7	11	15	27	16	8	5	9
California	0	0	0	2	4	8	10	9	6	6	54
Colorado	0	0	1	2	5	5	13	12	8	6	48
Connecticut	0	0	0	0	7	10	15	14	12	11	30
Delaware	0	0	0	5	2	5	16	5	10	3	53
District of Columbia	0	0	0	4	4	0	0	4	0	0	88
Florida	0	0	0	0	1	2	4	8	7	8	70
Georgia	0	0	0	2	3	8	14	13	11	8	41
Hawaii	0	0	0	3	6	14	18	16	8	14	21
Idaho	0	0	3	9	7	12	14	17	12	5	22
Illinois	0	0	2	3	8	13	16	11	9	6	32
Indiana	0	0	1	4	8	12	14	13	13	8	27
Iowa	0	0	2	5	10	12	16	14	12	8	22
Kansas	0	0	2	5	10	13	12	12	10	9	26
Kentucky	0	2	8	11	12	14	13	11	8	6	14
Louisiana	0	0	0	2	3	7	16	21	12	9	31
Maine	0	1	4	8	11	15	18	16	13	3	11
Maryland	0	0	1	3	7	12	12	12	6	6	42
Massachusetts	0	0	0	1	2	9	13	13	9	10	43
Michigan	0	0	0	1	3	7	11	15	14	10	39
Minnesota	0	0	2	5	12	14	13	13	10	6	26
Mississippi	0	0	0	2	1	10	16	17	14	8	32
Missouri	0	0	2	5	10	13	16	15	9	5	24
Montana	0	0	0	7	19	25	17	10	6	4	11
Nebraska	0	0	0	4	10	15	17	16	15	8	15
Nevada	0	0	1	1	7	7	11	11	9	7	46
New Hampshire	0	0	0	0	3	5	11	18	21	12	30
New Jersey	0	0	0	0	1	4	3	6	6	8	73
New Mexico	0	0	2	2	9	16	19	17	10	4	21
New York	0	0	1	3	5	13	14	11	10	8	36
North Carolina	0	0	0	1	2	4	10	16	17	11	38
North Dakota	0	0	2	17	28	25	15	5	3	1	3
Ohio	0	0	0	0	1	4	10	16	15	11	42
Oklahoma	0	0	2	3	10	19	18	11	7	6	23
Oregon	0	0	2	5	10	14	14	9	8	7	31
Pennsylvania	0	1	3	6	11	13	13	12	6	5	31
Puerto Rico	0	0	0	0	1	2	6	18	29	17	27
Rhode Island	0	0	1	3	5	9	12	15	7	5	42
South Carolina	0	0	0	1	3	5	13	15	9	9	45
South Dakota	0	0	3	16	23	20	14	9	7	3	6
Tennessee	0	0	1	2	5	11	16	14	9	7	35
Texas	0	0	1	2	4	8	11	11	10	10	42
Utah	0	0	0	4	6	8	18	10	10	6	38
Vermont	0	0	0	1	6	12	13	20	11	13	23
Virginia	0	0	1	2	8	11	16	15	10	7	29
Washington	0	0	0	4	5	12	11	10	9	6	44
West Virginia	0	1	6	12	22	22	16	8	3	3	7
Wisconsin	0	0	1	1	4	10	21	19	12	9	22
Wyoming	0	0	1	7	14	18	19	14	7	7	11
Nationwide	0 %	0 %	2 %	4 %	7 %	11 %	13 %	13 %	10 %	7 %	33 %

Table 18
High-Speed Subscribership
Ranked by Population Density

Persons per Square Mile ¹	Percentage of Zip Codes with at Least One High-Speed Subscriber							Percentage of Population that Resides in Zip Codes with High-Speed Service						
	Jun 2005	Dec 2005	Jun 2006	Dec 2006	Jun 2007	Dec 2007	Jun 2008	Jun 2005	Dec 2005	Jun 2006	Dec 2006	Jun 2007	Dec 2007	Jun 2008
More than 3,190	99.3 %	99.5 %	99.7 %	99.9 %	100.0 %	100.0 %	100.0 %	100.0 %	100.0 %	100.0 %	100.0 %	100.0 %	100.0 %	100.0 %
975 - 3,190	99.8	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
278 - 975	99.4	99.7	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
118 - 278	99.5	99.7	99.6	99.8	100.0	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
66 - 118	99.4	99.7	99.7	99.7	100.0	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
41 - 66	99.1	99.3	99.6	99.5	99.9	99.9	100.0	99.9	99.9	100.0	100.0	100.0	100.0	100.0
25 - 41	97.7	98.8	99.3	99.4	99.8	99.6	100.0	99.6	99.8	99.9	99.9	100.0	99.9	100.0
15 - 25	97.5	98.1	98.7	99.4	99.9	99.7	100.0	99.4	99.5	99.7	99.9	100.0	100.0	100.0
6 - 15	95.8	97.9	98.6	99.2	99.9	99.5	100.0	98.9	99.6	99.7	99.8	100.0	99.9	100.0
Fewer than 6	92.2	96.9	98.2	99.0	99.8	99.6	100.0	98.2	99.3	99.7	99.9	100.0	99.9	100.0

Table 19
High-Speed Subscribership
Ranked by Household Income

Median Household Income ¹	Percentage of Zip Codes with at Least One High-Speed Subscriber							Percentage of Population that Resides in Zip Codes with High-Speed Service						
	Jun 2005	Dec 2005	Jun 2006	Dec 2006	Jun 2007	Dec 2007	Jun 2008	Jun 2005	Dec 2005	Jun 2006	Dec 2006	Jun 2007	Dec 2007	Jun 2008
More than \$61,200	99.6 %	99.8 %	100.0 %	100.0 %	100.0 %	100.0 %	100.0 %	100.0 %	100.0 %	100.0 %	100.0 %	100.0 %	100.0 %	100.0 %
\$50,331 - \$61,200	99.7	99.6	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
\$44,439 - \$50,331	99.3	99.4	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
\$40,334 - \$44,439	98.8	99.2	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
\$37,281 - \$40,334	98.2	99.1	99.3	99.6	100.0	99.8	100.0	99.9	100.0	100.0	100.0	100.0	100.0	100.0
\$34,633 - \$37,281	98.4	99.2	99.5	99.7	99.9	99.9	100.0	99.9	100.0	100.0	100.0	100.0	100.0	100.0
\$32,125 - \$34,633	97.4	98.9	99.3	99.6	99.9	99.9	100.0	99.9	99.9	100.0	100.0	100.0	100.0	100.0
\$29,616 - \$32,125	97.1	98.6	98.9	99.2	99.9	99.7	100.0	99.7	99.8	99.8	99.8	100.0	99.9	100.0
\$26,113 - \$29,616	96.4	98.2	98.8	99.5	99.9	99.7	100.0	99.8	99.9	99.9	100.0	100.0	100.0	100.0
Less than \$26,113	94.9	97.1	98.1	98.6	99.7	99.1	100.0	99.7	99.9	99.9	99.9	100.0	99.9	100.0

Historical data have been revised back through June 2005.

¹ Persons per square mile and median household income are presented in decile groups where each group contains 10% of the geographic Zip Codes. Because Zip Codes are being updated constantly, the decile break points vary slightly over time. The break points shown are typical. These data are created by geographically merging contemporaneous Tele Atlas® Dynamap® ZIP Code Boundary & Inventory Files with census block-level population and census block group-level income data from the 2000 Census of Population and Housing.

Customer Response

Publication: *High-Speed Services for Internet Access: Status as of June 30, 2008*

You can help us provide the best possible information to the public by completing this form and returning it to the Industry Analysis and Technology Division of the FCC's Wireline Competition Bureau.

1. Please check the category that best describes you:

- press
- current telecommunications carrier
- potential telecommunications carrier
- business customer evaluating vendors/service options
- consultant, law firm, lobbyist
- other business customer
- academic/student
- residential customer
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- state or local government employee
- Other (please specify)

2. Please rate the report: Excellent Good Satisfactory Poor No opinion

- | | | | | | |
|----------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Data accuracy | <input type="checkbox"/> |
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3. Overall, how do you rate this report? Excellent Good Satisfactory Poor No opinion

- | | | | | | |
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4. How can this report be improved?

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