

High-Speed Services for Internet Access: Status as of December 31, 2006

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, 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

We summarize here information from the fifteenth semi-annual data collection, thereby presenting a snapshot of subscribership as of December 31, 2006.³ High-speed lines connecting homes and businesses to the Internet increased by 27% during the second half of 2006, from 65.0 million to 82.5 million lines in service, following a 27% increase, from 51.2 million to 65.0 million lines, during the first half of 2006. For the full twelve month period ending December 31, 2006, high-speed lines increased by 61% (or 31.3 million lines). The presence of high-speed service subscribers was reported in all 50 states, the District of Columbia, American Samoa, Guam, Northern Mariana Islands, Puerto Rico, and the Virgin Islands, and in over 99% of the Zip Codes in the United States.

Twice a year, all facilities-based providers of high-speed connections to end users are required to report to the Commission basic information about their service offerings and types of customers.⁴ Prior to June 2005, providers with fewer than 250 high-speed lines (or wireless channels) in

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. 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). During this data gathering program, 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 by Form 477 were data as of December 31, 1999. An updated Form 477, and instructions for that particular form, for each specific round of the data collection may be downloaded from the FCC Forms website at www.fcc.gov/formpage.html.

³ 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.

⁴ The terms “broadband connections” (which is used as a synonym for “high-speed connections” in the Form 477 program) and “facilities-based provider” are defined on the first page of the Form 477 instructions that are available at www.fcc.gov/formpage.html, and the term “end users” is defined on the third page. Facilities-based providers report information about high-speed connections they provide directly to their own end-user customers and also high-speed connections they provide to Internet Service Providers for resale to end users.

service in a particular state were not required to report data for that state.⁵ Small providers of high-speed connections, many of whom serve rural areas with relatively small populations, were therefore underrepresented in the earlier data. Including these providers resulted in a substantial one-time increase in the number of holding companies and unaffiliated entities reporting information about high-speed connections from December 31, 2004 to June 30, 2005.⁶

The data reported for December 31, 2006 include detail about the information transfer rates (“speeds”) of the reported connections and a breakdown of high-speed connections by type of technology.⁷ The reported data also enable us to estimate, for individual states, the extent to which Digital Subscriber Line (DSL) high-speed connections provided by incumbent local exchange carriers (incumbent LECs), and cable modem high-speed service provided by cable system operators, are available to households residing in the areas these companies serve.

Readers can draw the following broad conclusions from the data summarized in this report:

- High-speed lines (or wireless channels) connecting homes and businesses to the Internet at speeds that exceed 200 kbps in *at least one* direction increased from 65.0 million lines to 82.5 million lines during the second half of 2006. For the full twelve month period ending December 31, 2006, high-speed lines increased by 31.3 million, from 51.2 million lines to 82.5 million lines. See Table 1 and Chart 1.
- ADSL lines increased by 2.8 million lines during the second half of 2006 compared to an increase of 3.2 million lines for cable modem service. For the full year, ADSL lines increased by 5.9 million lines compared to an increase of 5.5 million lines for cable modem service. See Table 1.
- Of the 82.5 million total high-speed lines, 38.9% were cable modem, 30.8% were ADSL, 1.2% were symmetric DSL (SDSL) or traditional wireline, 1.2% were fiber to the end user premises, and 27.8% used other technologies.⁸ See Chart 2.

⁵ 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.

⁶ The nationwide number of holding companies and unaffiliated entities reporting high-speed lines increased from 552 as of December 31, 2004 to 1,270 as of June 30, 2005. See Table 7.

⁷ Some Internet-access connections that telephone companies, cable system operators, and wireless service providers offer do not meet the 200 kbps criterion for reporting high-speed connections to the Commission, but may nevertheless meet the needs of the subscribers who select them over a more expensive service option.

⁸ 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.

- Lines connecting homes and businesses to the Internet at transmission speeds that exceed 200 kbps in *both* directions increased from 50.8 million lines to 59.5 million lines during the second half of 2006. For the full twelve month period ending December 31, 2006, they increased by 15.6 million, from 43.9 million lines to 59.5 million lines. See Table 2 and Chart 3.
- Of the 59.5 million lines which were faster than 200 kbps in *both* directions, 53.3% were cable modem, 35.5% were ADSL, 1.7% were SDSL or traditional wireline, 1.7% were fiber to the end user premises, and 7.7% used other technologies. See Chart 4.
- Of the 82.5 million total high-speed lines, 58.2 million were designed to serve primarily residential end users. Cable modem represented 53.6% of these lines while 39.1% were ADSL, 0.2% were SDSL or traditional wireline connections, 1.3% were fiber to the end user premises, and 5.8% used other technologies. See Table 3 and Chart 6. For state-specific data, see Table 13.
- Of the 59.5 million lines that were faster than 200 kbps in *both* directions, 53.5 million lines were designed to serve primarily residential end users. Of these, cable modem represented 57.7% while 35.3% were ADSL, 0.2% were SDSL or traditional wireline, 1.4% were fiber to the end user premises, and 5.4% used other technologies. See Table 4 and Chart 8.
- Of the 59.5 million reported high-speed lines that were faster than 200 kbps in *both* directions as of December 31, 2006, 63% were at least 2.5 mbps in the faster direction and 37% were slower than 2.5 mbps in the faster direction. See Table 5.
- Incumbent LECs or their affiliates reported 97% of ADSL connections and 49% of traditional wireline connections. When all technologies are considered, incumbent LECs reported 53% 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.
- As a nationwide average, we estimate that high-speed DSL connections were available to 79% 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.

- The Commission's data collection program requires providers to list the Zip Codes in which the provider has at least one high-speed connection in service to an end user, and over 99% of Zip Codes were listed by at least one provider.⁹ The most widely reported technologies by this measure were satellite (with at least some presence reported in 91% of Zip Codes), ADSL (in 84% of Zip Codes), and cable modem (in 65% of Zip Codes). ADSL and/or cable modem connections were reported to be present in 90% of Zip Codes.¹⁰ See Tables 15 and 16. For state-specific data, see Table 17.
- Our analysis indicates that more than 99% of the country's population lives in the more than 99% of Zip Codes where a provider reports having at least one high-speed service subscriber. Moreover, numerous competing providers report serving high-speed subscribers in the major population centers of the country. See the map that follows Table 16.
- High population density has a positive association with reports that high-speed subscribers are present, and low population density has an inverse association. For example, high-speed subscribers were reported to be present in more than 99% of the most densely populated Zip Codes and in 90% of Zip Codes with the lowest population densities.¹¹ The comparable figure for the lowest-density Zip Codes was 88% a year earlier. See Table 18.
- High median household income also has a positive association with reports that high-speed subscribers are present. In the top one-tenth of Zip Codes ranked by median household income, high-speed subscribers are reported in 99% of Zip Codes. By contrast, high-speed subscribers are reported in 91% of Zip Codes with the lowest median household income, compared to 90% a year earlier. See Table 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.

⁹ Lists of Zip Codes with number of service providers as reported in the FCC Form 477 filings are made available at www.fcc.gov/web/stats in a format that honors requests for nondisclosure of information the reporting entities assert is competitively sensitive.

¹⁰ The 90% figure (more precisely, 89.5%) includes ZIP codes with either ADSL subscribers reported, cable modem subscribers reported, or both. In 59.5% of ZIP codes, both ADSL and cable modem subscribers have been reported. In 24.3% of ZIP codes, there are ADSL subscribers reported but no cable modem subscribers, and in 5.7% of ZIP codes there are cable modem subscribers reported but no ADSL subscribers reported.

¹¹ For this comparison, we consider the most densely populated Zip Codes to be those with more than 3,147 persons per square mile (the top decile of Zip Codes) and the least densely populated Zip Codes to be those with fewer than 6 persons per square mile (the bottom decile).

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.

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

Technology ²	1999	2000	2001	2002	2003	2004	2005		2006	
	Dec	Dec	Dec	Dec	Dec	Dec	Jun	Dec	Jun	Dec
ADSL	369,792	1,977,101	3,947,808	6,471,716	9,509,442	13,817,280	16,316,309	19,515,483	22,575,010	25,417,359
SDSL and Traditional Wireline	-	1,021,291	1,078,597	1,216,208	1,305,070	1,468,566	898,468	878,973	948,160	1,031,781
SDSL	-	-	-	-	-	-	411,731	368,782	337,438	344,510
Traditional Wireline	609,909	-	-	-	-	-	486,737	510,191	610,722	687,271
Cable Modem	1,411,977	3,582,874	7,059,598	11,369,087	16,446,322	21,357,400	24,017,442	26,558,206	28,861,965	32,097,223
Fiber ³	41,935	63,206	91,921	108,541	116,390	159,653	315,651	448,257	700,083	1,030,119
Satellite and Wireless	50,404	112,405	212,610	276,067	367,118	549,621	965,068	3,812,655	11,872,309	22,966,393
Satellite	-	-	-	-	-	-	376,837	426,928	495,365	571,980
Fixed Wireless	-	-	-	-	-	-	208,695	257,431	360,976	484,073
Mobile Wireless	-	-	-	-	-	-	379,536	3,128,296	11,015,968	21,910,340
Power Line and Other	-	-	-	-	-	-	4,872	4,571	5,208	4,776
Total Lines	2,484,017	6,756,877	12,390,534	19,441,619	27,744,342	37,352,520	42,517,810	51,218,145	64,962,735	82,547,651

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. See additional notes following Chart 10.

Chart 1
Total High-Speed Lines

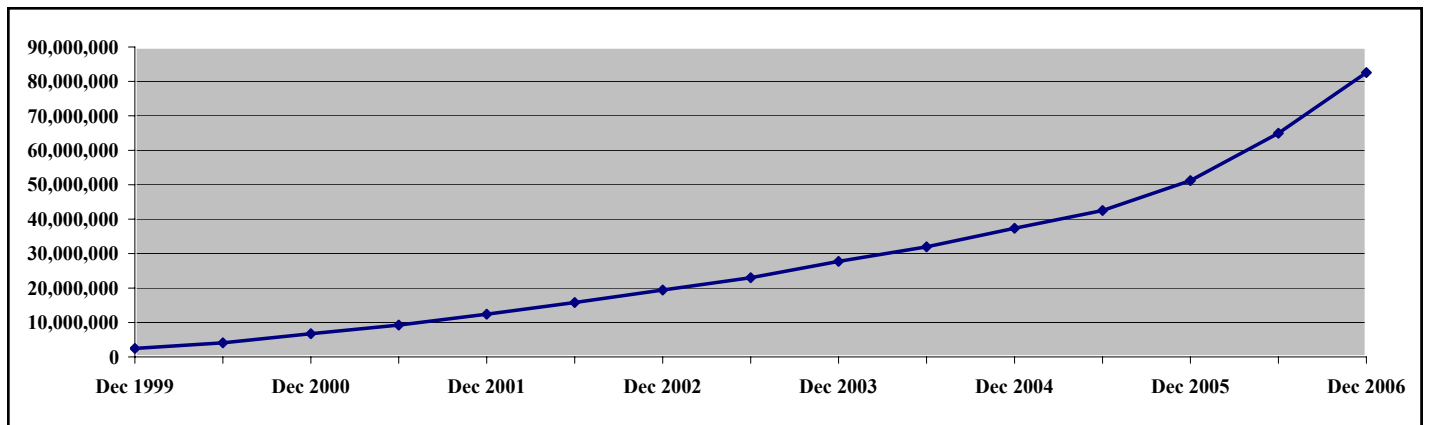


Chart 2
High-Speed Lines by Technology as of December 31, 2006

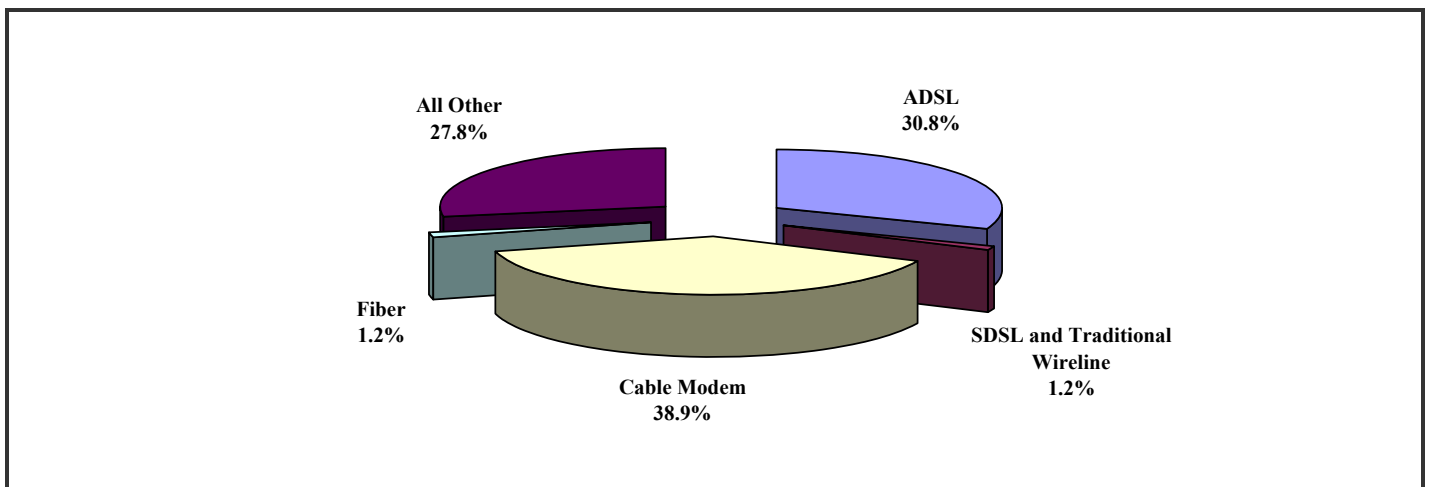


Table 2
Advanced Services Lines ¹
(Over 200 kbps in both directions)

Technology ²	1999	2000	2001	2002	2003	2004	2005		2006	
	Dec	Dec	Dec	Dec	Dec	Dec	Jun	Dec	Jun	Dec
ADSL	185,950	675,366	1,369,143	2,178,394	3,037,474	5,695,548	13,176,095	15,921,336	18,301,930	21,148,538
SDSL and Traditional Wireline	609,909	1,021,291	1,078,597	1,216,208	1,305,070	1,468,566	869,772	874,261	946,900	1,030,853
SDSL	-	-	-	-	-	-	387,451	368,736	336,612	344,479
Traditional Wireline	-	-	-	-	-	-	482,321	505,525	610,288	686,374
Cable Modem	877,465	2,193,609	4,394,778	8,342,234	15,327,247	20,891,624	22,745,012	26,293,596	28,569,028	31,709,629
Fiber ³	37,046	63,200	84,206	108,192	115,633	157,127	314,229	447,235	698,990	1,028,759
Satellite and Wireless	7,816	26,906	75,341	65,929	73,222	106,616	223,274	338,635	2,274,465	4,604,934
Satellite	-	-	-	-	-	-	10,966	36,331	27,489	36,026
Fixed Wireless	-	-	-	-	-	-	191,229	220,268	333,072	455,509
Mobile Wireless	-	-	-	-	-	-	21,079	82,036	1,913,904	4,113,399
Power Line and Other	-	-	-	-	-	-	4,174	4,501	5,209	4,776
Total Lines	1,718,186	3,980,372	7,002,065	11,910,957	19,858,646	28,319,482	37,332,557	43,879,564	50,796,522	59,527,489

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. See additional notes following Chart 10.

Chart 3
Advanced Services Lines

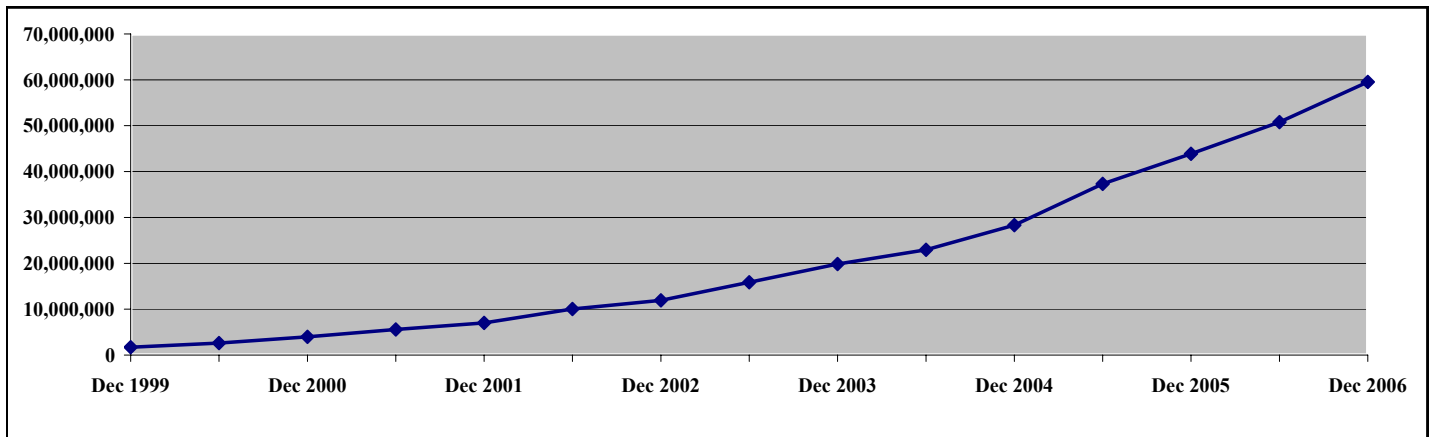


Chart 4
Advanced Services Lines by Technology as of December 31, 2006

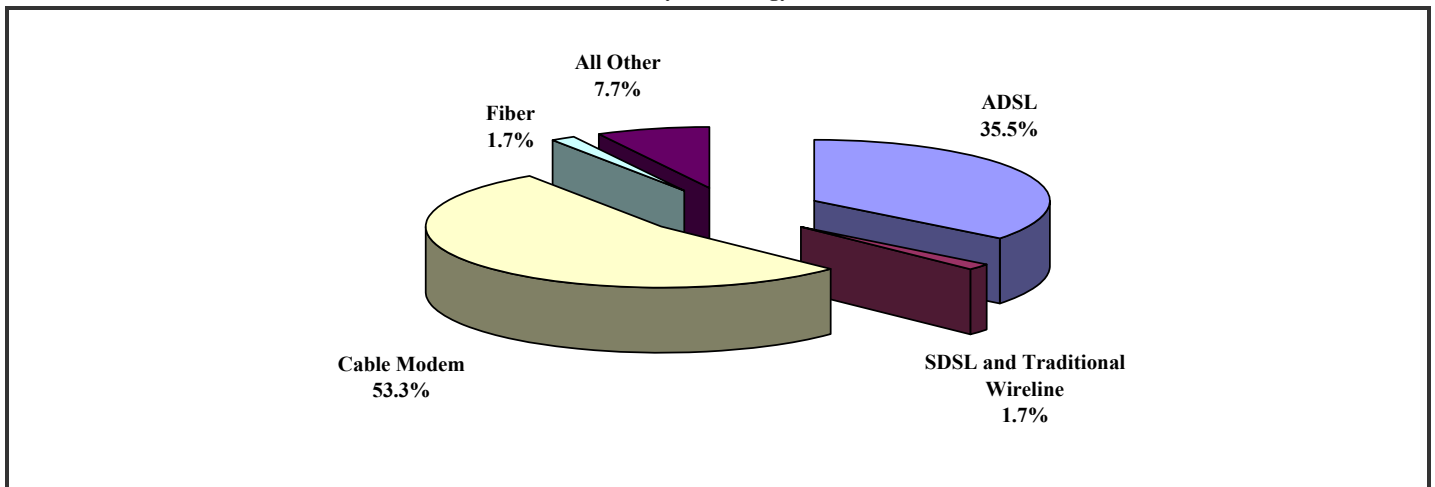


Table 3
Residential High-Speed Lines¹
(Over 200 kbps in at least one direction)

Technology ²	1999	2000	2001	2002	2003	2004	2005		2006	
	Dec	Dec	Dec	Dec	Dec	Dec	Jun	Dec	Jun	Dec
ADSL	291,757	1,594,879	3,615,989	5,529,241	8,909,027	13,119,326	14,442,823	17,370,508	20,143,255	22,773,133
SDSL and Traditional Wireline	-	176,520	139,660	213,489	289,764	419,215	159,489	129,444	112,043	117,469
SDSL	-	-	-	-	-	-	153,978	122,220	102,631	104,773
Traditional Wireline	46,856	-	-	-	-	-	5,511	7,224	9,412	12,696
Cable Modem	1,402,394	3,294,546	7,050,709	11,342,512	16,416,364	21,270,158	23,578,060	25,714,461	28,068,716	31,230,519
Fiber ³	1,023	1,994	4,139	14,692	19,830	34,959	83,293	213,479	442,027	758,137
Satellite and Wireless	50,189	102,432	194,897	256,978	341,864	422,623	428,367	532,704	1,839,368	3,359,952
Satellite	-	-	-	-	-	-	265,017	320,142	382,047	455,936
Fixed Wireless	-	-	-	-	-	-	160,775	203,179	301,153	424,127
Mobile Wireless	-	-	-	-	-	-	2,574	9,384	1,156,168	2,479,889
Power Line and Other	-	-	-	-	-	-	4,447	4,550	5,093	4,711
Total Lines	1,792,219	5,170,371	11,005,396	17,356,912	25,976,850	35,266,281	38,696,480	43,965,147	50,610,502	58,243,921

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. See additional notes following Chart 10.

Chart 5
Residential High-Speed Lines

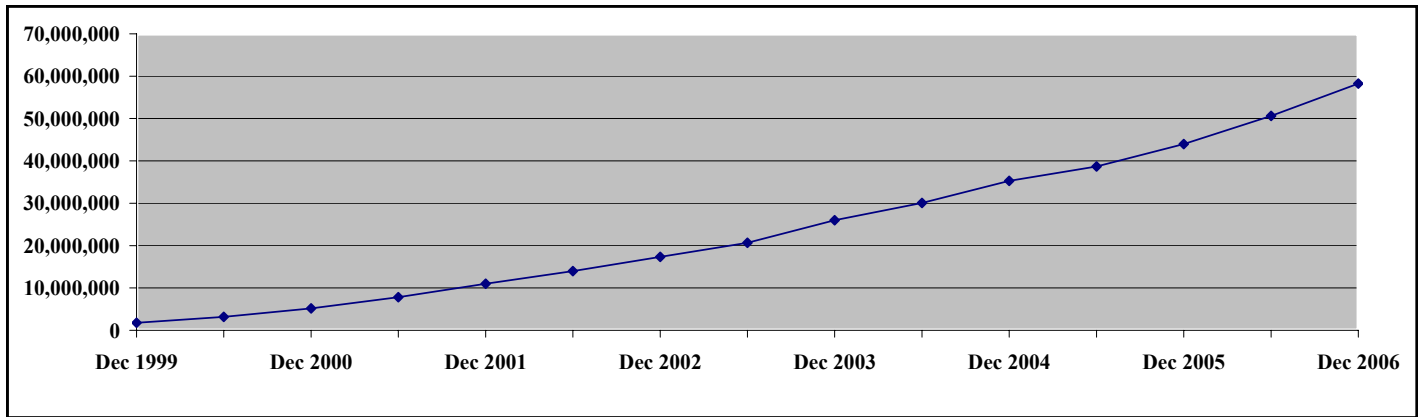


Chart 6
Residential High-Speed Lines by Technology as of December 31, 2006

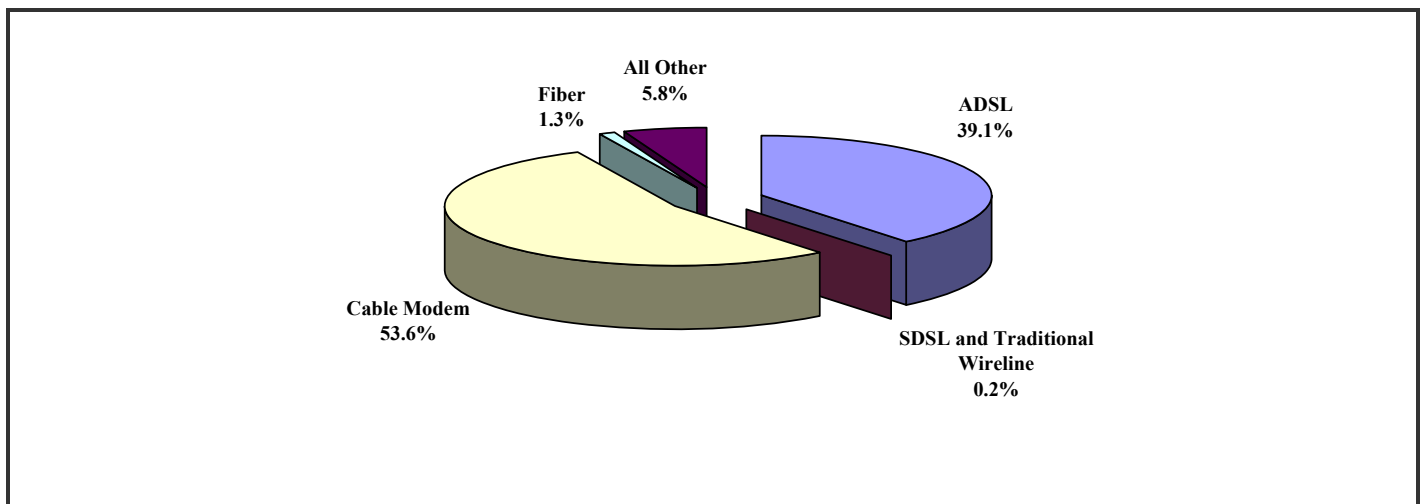


Table 4
Residential Advanced Services Lines¹
(Over 200 kbps in both directions)

Technology ²	1999	2000	2001	2002	2003	2004	2005		2006	
	Dec	Dec	Dec	Dec	Dec	Dec	Jun	Dec	Jun	Dec
ADSL	116,994	393,246	1,243,996	1,827,547	2,437,059	5,026,367	11,731,303	14,242,291	16,407,705	18,883,258
SDSL and Traditional Wireline	-	176,520	139,660	213,489	289,764	419,215	151,979	125,116	111,961	117,413
SDSL	-	-	-	-	-	-	149,862	122,220	102,606	104,763
Traditional Wireline	46,856	-	-	-	-	-	2,118	2,895	9,355	12,650
Cable Modem	872,024	2,177,328	4,388,967	8,322,157	15,297,289	20,811,704	22,324,471	25,533,423	27,828,110	30,882,957
Fiber ³	138	1,992	3,523	14,408	19,074	33,189	82,831	212,862	441,128	756,826
Satellite and Wireless	7,682	17,043	58,113	47,903	51,944	84,465	150,893	204,703	1,448,607	2,887,247
Satellite	-	-	-	-	-	-	2,244	25,117	15,055	23,334
Fixed Wireless	-	-	-	-	-	-	146,074	170,515	277,384	399,560
Mobile Wireless	-	-	-	-	-	-	2,574	9,071	1,156,168	2,464,353
Power Line and Other	-	-	-	-	-	-	3,916	4,481	5,093	4,711
Total Lines	1,043,694	2,766,130	5,834,258	10,425,505	18,095,131	26,374,940	34,445,394	40,322,876	46,242,604	53,532,412

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. See additional notes following Chart 10.

Chart 7
Residential Advanced Services Lines

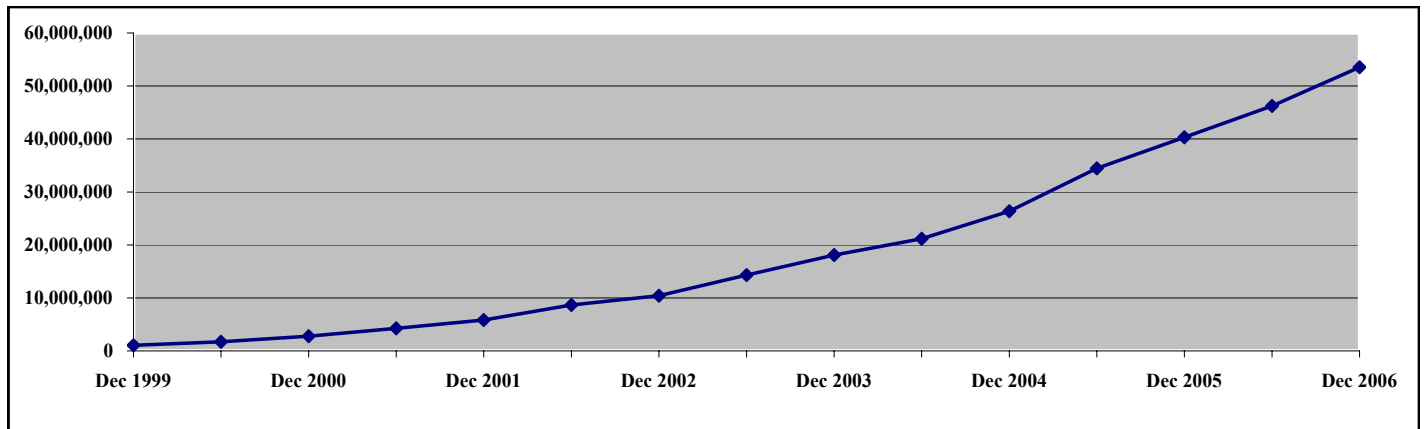


Chart 8
Residential Advanced Services Lines by Technology as of December 31, 2006

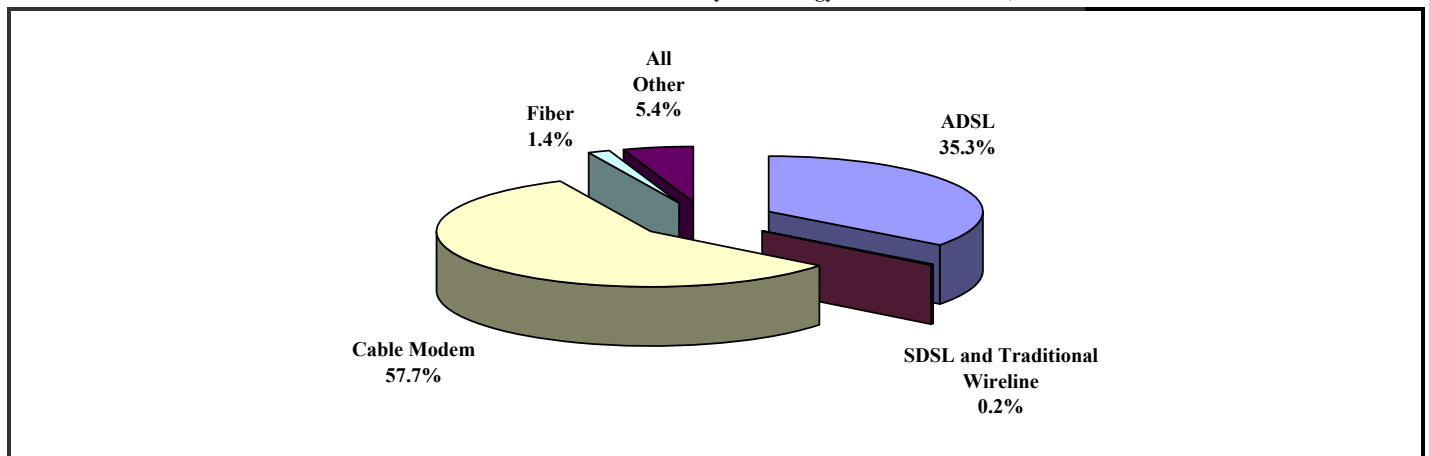


Table 5
High-Speed Lines by Information Transfer Rates ¹
As of December 31, 2006

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	4,268,821	12,433,916	8,698,277	13,973	*	*
SDSL	31	343,654	792	*	*	0
Traditional Wireline	897	649,547	14,604	1,448	13,675	7,100
Cable Modem	387,594	3,757,915	25,533,788	*	*	0
Fiber	1,360	239,020	431,002	326,774	19,121	12,842
Satellite	535,954	36,026	0	0	0	0
Fixed Wireless	28,564	433,066	21,842	244	*	*
Mobile Wireless	17,796,941	*	*	0	0	0
Power Line and Other	0	*	*	0	*	0
Total Lines	23,020,162	22,009,596	34,702,025	2,717,861	76,842	21,165

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

Chart 9
Lines by Information Transfer Rates in the Faster Directions as of December 31, 2006
(Includes only lines exceeding 200 kbps in both directions)

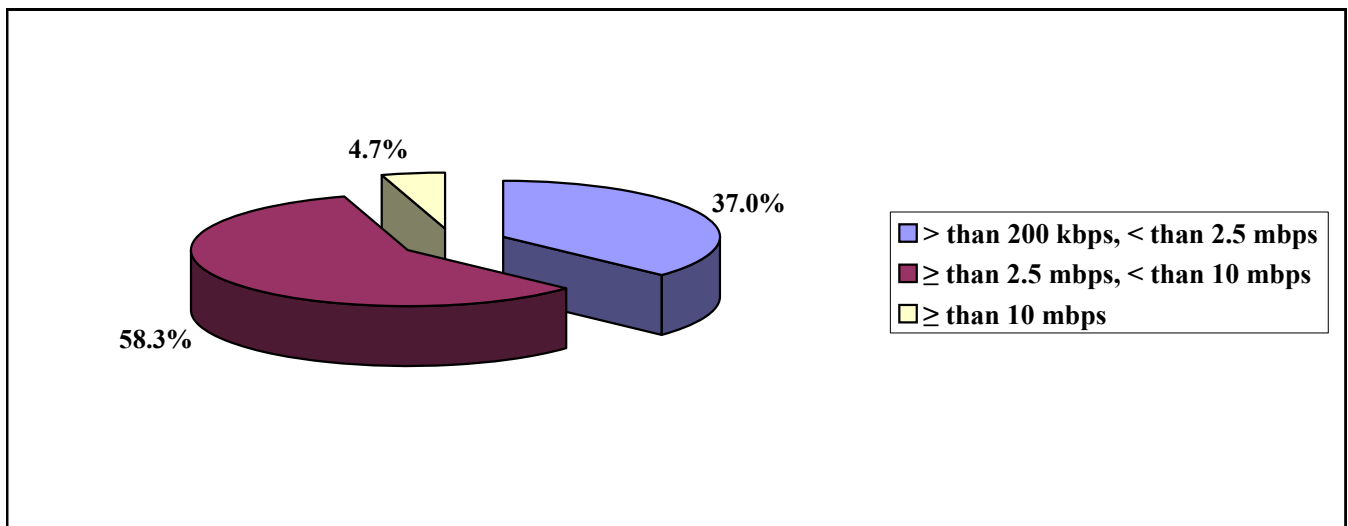


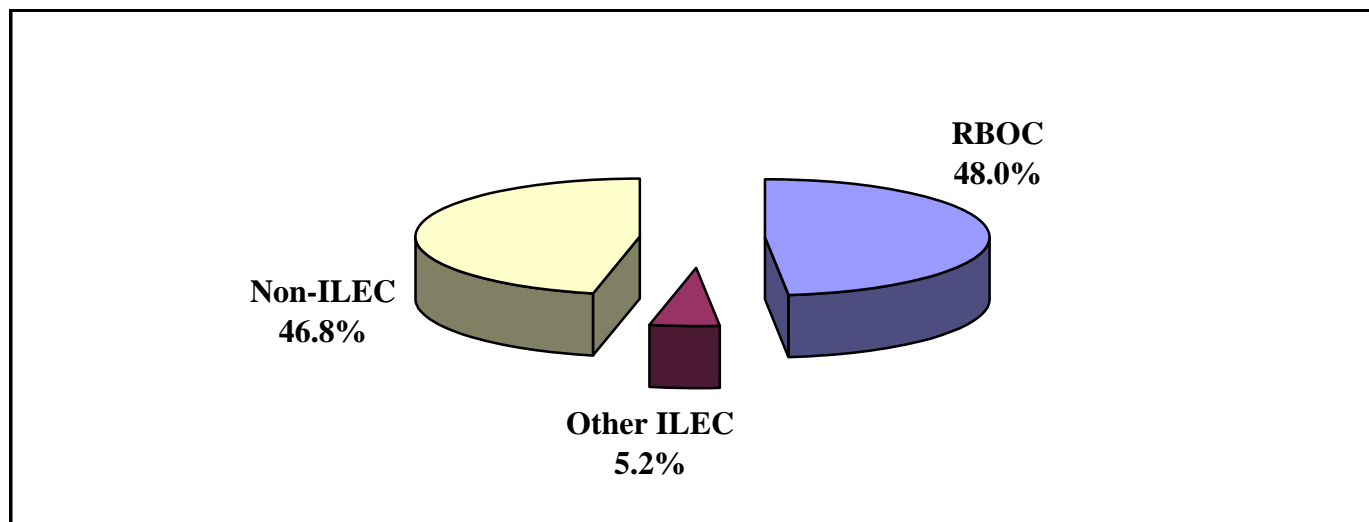
Table 6
High-Speed Lines by Type of Provider as of December 31, 2006 ¹
(Over 200 kbps in at least one direction)

Technology ²	Lines				Percent of Lines		
	RBOC ⁴	Other ILEC	Non-ILEC ⁵	Total	RBOC ⁴	Other ILEC	Non-ILEC ⁵
ADSL	20,581,389	4,057,632	778,338	25,417,359	81.0 %	16.0 %	3.1 %
SDSL	*	*	229,798	344,510	*	*	66.7
Traditional Wireline	322,732	13,554	350,985	687,271	47.0	2.0	51.1
Cable Modem	*	*	32,021,086	32,418,792	*	*	98.8
Fiber	867,664	35,321	127,134	1,030,119	*	*	12.3
Satellite	0	0	571,980	571,980	0.0	0.0	100.0
Fixed Wireless	*	*	463,631	484,073	*	*	95.8
Mobile Wireless	*	*	3,881,971	21,910,340	*	*	17.7
Power Line and Other	0	0	4,776	4,776	0.0	0.0	100.0
Total Lines	39,807,855	4,310,105	38,429,691	82,547,651	48.2 %	5.2 %	46.6 %

* Data withheld to maintain firm confidentiality.

See notes following Chart 10.

Chart 10
Share of High-Speed Lines by Type of Provider as of December 31, 2006



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 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	820	242	835	1,347
Jun 2006	832	254	814	1,324
Dec 2006	862	278	882	1,397

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

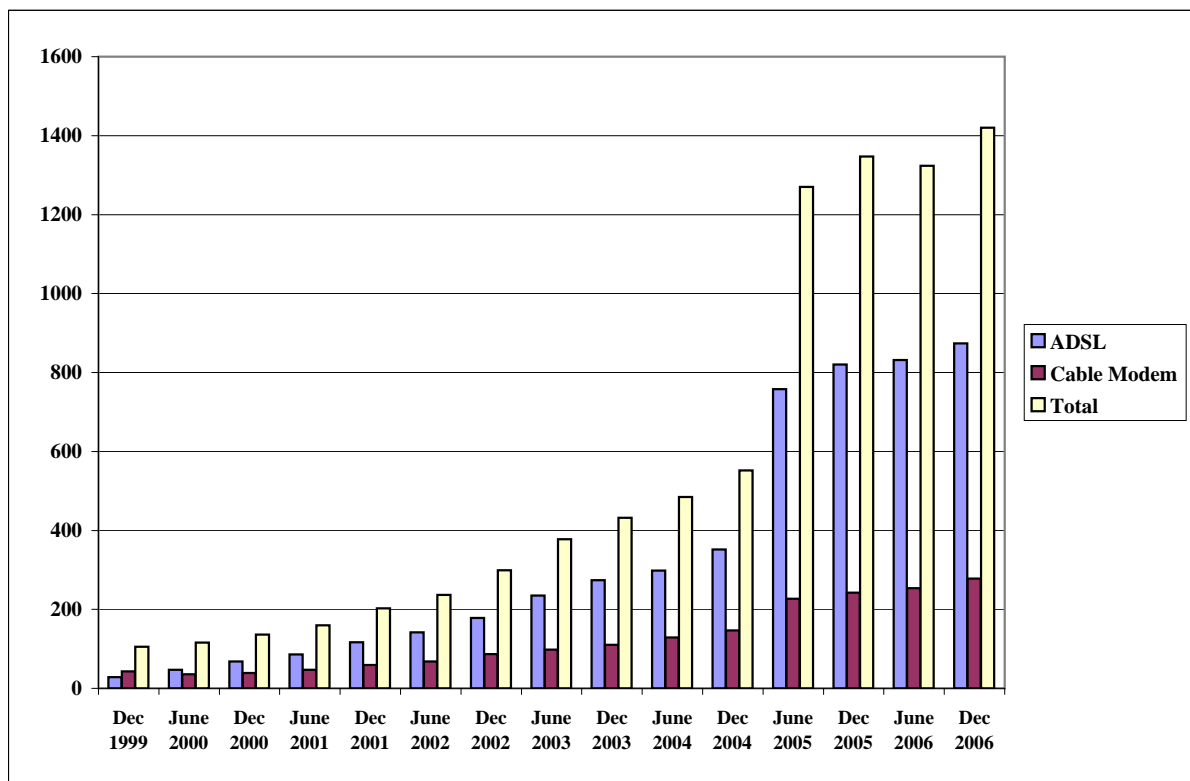


Table 8
Providers of High-Speed Lines by Technology as of December 31, 2006
(Over 200 kbps in at least one direction)

State	ADSL	SDSL	Traditional Wireline	Cable Modem	Fiber	Satellite	Fixed Wireless	Mobile Wireless	Power Line and Other	Total (Unduplicated)
Alabama	33	10	17	17	6	*	6	4	*	63
Alaska	9	4	4	*	*	*	6	*	0	18
American Samoa	*	*	0	0	0	0	0	0	0	*
Arizona	20	9	15	8	10	*	14	5	0	52
Arkansas	21	8	11	9	5	*	*	*	0	45
California	26	18	26	17	12	*	22	*	0	77
Colorado	27	11	19	11	10	*	20	5	0	63
Connecticut	7	9	7	6	6	*	0	*	0	25
Delaware	7	5	9	*	4	*	0	*	0	22
District of Columbia	8	8	13	*	5	*	*	4	0	28
Florida	22	15	25	10	10	*	10	5	0	60
Georgia	37	14	19	27	20	*	12	4	0	81
Guam	*	0	*	0	0	0	0	0	0	*
Hawaii	*	*	4	*	*	*	*	*	0	14
Idaho	22	7	12	7	11	*	12	*	0	45
Illinois	56	21	34	16	12	*	39	*	*	121
Indiana	39	15	23	11	16	4	26	*	*	81
Iowa	126	47	30	36	22	*	36	4	0	182
Kansas	41	17	14	24	12	*	25	*	0	83
Kentucky	28	10	11	19	9	*	12	4	0	66
Louisiana	23	8	12	10	10	*	8	5	*	51
Maine	12	10	9	4	4	*	0	*	0	25
Maryland	12	10	14	12	7	*	5	4	0	43
Massachusetts	14	11	16	7	6	*	*	*	0	37
Michigan	37	14	19	12	9	*	12	*	0	67
Minnesota	69	23	18	14	21	*	18	*	0	101
Mississippi	22	4	15	13	5	*	5	5	0	51
Missouri	38	20	15	17	10	4	25	*	*	83
Montana	19	8	9	4	5	*	10	*	0	38
Nebraska	36	15	8	16	4	*	22	5	0	67
Nevada	15	11	13	*	6	*	5	*	0	32
New Hampshire	18	10	12	5	5	*	*	*	0	36
New Jersey	15	12	21	7	7	*	*	5	0	41
New Mexico	22	6	8	6	4	*	7	4	0	38
New York	38	18	27	13	12	*	11	*	0	72
North Carolina	33	19	17	10	8	*	8	5	0	60
North Dakota	23	14	12	7	9	*	12	*	0	40
Northern Mariana Islands	*	0	*	0	*	0	*	0	0	*
Ohio	37	20	19	19	15	*	16	*	*	81
Oklahoma	39	11	18	10	6	*	13	4	0	69
Oregon	34	12	15	7	11	*	12	*	0	61
Pennsylvania	43	19	28	18	14	*	12	5	0	75
Puerto Rico	*	0	6	*	*	*	5	*	0	15
Rhode Island	8	7	9	*	5	*	0	*	0	19
South Carolina	24	8	16	14	10	*	4	4	0	42
South Dakota	25	11	8	8	8	4	7	*	0	42
Tennessee	27	14	13	12	6	*	6	4	0	58
Texas	64	25	31	24	17	*	51	6	0	138
Utah	18	12	9	*	8	*	11	4	0	40
Vermont	13	7	11	*	*	*	4	*	0	27
Virgin Islands	*	*	*	0	0	*	*	*	0	7
Virginia	28	13	22	13	12	*	16	5	*	66
Washington	31	12	18	12	15	*	18	*	0	63
West Virginia	9	5	7	6	*	*	*	*	0	24
Wisconsin	52	16	14	13	9	*	19	4	0	79
Wyoming	11	6	6	*	5	*	7	*	0	28
Nationwide	862	257	256	278	221	5	505	24	6	1,397

* Indicates one to three providers.

Table 9
High-Speed Lines by Technology as of December 31, 2006
(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	314,640	7,325	6,410	342,340	1,033	*	823	*	*	898,850
Alaska	60,055	7,958	363	*	*	*	6,570	*	0	145,008
American Samoa	*	*	0	0	0	*	0	0	0	*
Arizona	365,228	1,782	10,497	838,455	3,083	*	19,188	*	0	1,832,564
Arkansas	199,793	1,231	3,010	183,503	2,191	*	*	*	0	424,685
California	4,342,556	38,848	175,092	3,155,718	164,611	*	49,689	*	0	11,753,765
Colorado	473,148	2,409	15,792	523,159	1,299	*	20,333	*	0	1,489,091
Connecticut	*	3,494	7,544	454,348	3,204	*	0	*	0	1,251,241
Delaware	*	197	1,506	*	*	*	0	*	0	273,734
District of Columbia	*	2,599	2,428	*	633	*	*	*	0	268,008
Florida	1,873,271	9,298	39,005	2,178,484	79,983	*	*	*	0	5,346,321
Georgia	1,126,082	8,320	23,627	846,736	2,898	*	4,895	*	0	2,651,349
Guam	*	0	*	0	0	*	0	0	0	*
Hawaii	*	*	544	*	*	*	*	*	0	417,674
Idaho	113,301	735	1,794	108,595	1,561	*	28,066	*	0	381,583
Illinois	1,211,763	14,222	44,854	1,152,096	23,008	*	24,819	*	*	3,317,065
Indiana	515,054	4,552	12,822	550,127	29,907	*	9,330	*	*	1,586,501
Iowa	233,039	4,611	2,660	234,266	2,985	*	12,935	*	0	654,694
Kansas	202,751	4,670	5,804	349,684	2,962	*	13,206	*	0	755,922
Kentucky	303,296	4,293	4,482	333,339	2,333	*	2,071	*	0	774,736
Louisiana	270,811	5,587	4,400	419,735	12,232	*	1,769	*	*	892,835
Maine	104,657	3,092	5,029	152,291	*	*	0	*	0	305,883
Maryland	489,553	9,475	16,517	781,120	*	*	552	*	0	1,813,960
Massachusetts	*	6,809	15,036	1,044,333	*	*	*	*	0	2,243,743
Michigan	606,616	4,968	26,310	1,103,040	11,872	*	4,269	*	0	2,416,451
Minnesota	394,743	20,268	5,998	541,116	6,725	*	25,097	*	0	1,312,911
Mississippi	154,179	1,006	2,685	135,965	605	*	489	*	0	332,307
Missouri	545,679	6,287	11,008	446,600	4,644	*	6,683	*	*	1,266,504
Montana	82,876	2,454	875	65,238	232	*	7,042	*	0	264,121
Nebraska	112,032	3,096	924	239,465	447	*	9,743	*	0	470,118
Nevada	190,202	1,967	9,006	*	1,544	*	6,645	*	0	782,840
New Hampshire	93,521	2,258	4,760	209,781	*	*	*	*	0	443,137
New Jersey	703,950	6,180	18,633	1,385,953	*	*	*	*	0	3,392,607
New Mexico	156,620	706	1,651	108,906	864	*	2,293	*	0	422,964
New York	1,103,960	24,097	23,533	2,967,028	103,489	*	424	*	0	5,669,523
North Carolina	648,001	23,883	17,903	1,040,513	8,656	*	18,506	*	0	2,366,079
North Dakota	46,346	3,451	354	70,878	3,586	*	4,312	*	0	131,348
Northern Mariana Island	*	0	*	0	*	*	*	0	0	*
Ohio	858,846	5,115	19,625	1,303,470	19,235	*	12,737	*	*	3,186,537
Oklahoma	277,282	2,749	4,425	312,500	4,013	*	2,016	*	0	652,296
Oregon	311,604	7,951	6,813	448,117	16,703	*	16,690	*	0	1,055,986
Pennsylvania	1,012,845	21,388	16,556	1,255,720	*	*	1,530	*	0	3,374,313
Puerto Rico	*	0	3,733	*	*	*	5,326	*	0	251,163
Rhode Island	*	1,161	3,357	*	*	*	0	*	0	349,994
South Carolina	289,537	339	7,968	412,939	6,176	*	506	*	0	1,041,762
South Dakota	39,684	3,737	202	100,155	2,153	*	4,441	*	0	154,738
Tennessee	396,928	2,899	9,975	601,889	6,923	*	315	*	0	1,573,992
Texas	1,997,483	14,480	36,022	1,944,069	136,266	*	58,737	*	0	5,452,666
Utah	222,307	5,191	3,563	*	1,292	*	17,749	*	0	638,618
Vermont	61,441	*	2,760	*	*	*	*	*	0	170,245
Virgin Islands	*	*	*	0	0	*	*	*	0	11,139
Virginia	505,285	5,363	17,282	866,086	69,312	*	7,613	*	*	2,183,019
Washington	533,668	7,467	12,180	806,126	12,061	*	26,219	*	0	2,015,564
West Virginia	104,637	3,163	2,718	144,569	*	*	*	*	0	268,746
Wisconsin	417,510	13,275	16,955	591,981	11,125	*	6,848	*	0	1,247,350
Wyoming	44,347	1,511	186	*	135	*	2,949	*	0	156,940
Nationwide	25,417,359	344,510	687,271	32,097,223	1,030,119	571,980	484,073	21,910,340	4,776	82,547,651

* Data withheld to maintain firm confidentiality.

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

State	1999	2000	2001	2002	2003	2004	2005		2006	
	Dec	Dec	Dec	Dec	Dec	Dec	Jun	Dec	Jun	Dec
Alabama	19,796	63,334	138,979	227,888	352,215	410,054	455,300	531,976	615,510	898,850
Alaska	*	934	50,277	55,975	71,778	110,416	95,761	109,484	125,005	145,008
American Samoa	0	0	0	0	0	0	*	*	*	*
Arizona	57,351	150,548	248,172	367,322	532,161	745,957	809,819	1,039,445	1,392,711	1,832,564
Arkansas	8,155	28,968	66,377	100,089	157,959	220,051	258,270	302,881	363,933	424,685
California	507,844	1,326,239	1,971,228	2,960,664	4,084,382	5,294,566	5,954,876	7,337,217	9,395,285	11,753,765
Colorado	34,677	100,120	171,992	292,697	418,866	615,101	688,189	882,669	1,165,853	1,489,091
Connecticut	35,044	109,218	188,164	304,338	440,480	598,582	679,891	807,796	1,024,053	1,251,241
Delaware	1,183	7,492	25,955	50,380	68,210	91,975	108,554	132,399	157,648	273,734
District of Columbia	6,344	18,352	32,521	52,873	76,275	101,638	113,086	139,594	200,221	268,008
Florida	182,455	445,331	893,473	1,388,166	1,966,835	2,659,862	2,958,350	3,537,720	4,408,427	5,346,321
Georgia	65,993	188,254	402,259	635,776	906,217	1,205,282	1,328,956	1,610,750	2,054,077	2,651,349
Guam	0	0	0	0	0	*	*	*	*	*
Hawaii	*	*	*	*	*	*	*	*	294,612	417,674
Idaho	*	15,908	18,445	54,963	80,455	126,121	149,023	167,926	202,521	381,583
Illinois	61,884	242,239	395,843	704,780	1,056,170	1,497,803	1,817,481	2,159,932	2,666,304	3,317,065
Indiana	18,797	58,216	120,794	202,760	415,603	637,696	742,667	922,569	1,191,752	1,586,501
Iowa	19,258	58,199	82,024	121,053	191,464	266,794	325,701	394,359	446,657	654,694
Kansas	26,179	68,743	125,685	193,212	284,467	386,747	419,384	470,287	595,979	755,922
Kentucky	23,570	32,731	67,870	99,265	243,005	360,903	408,184	508,198	629,538	774,736
Louisiana	28,133	74,950	164,760	262,093	368,528	486,077	536,934	508,009	730,203	892,835
Maine	19,878	26,266	49,220	72,683	98,768	142,246	176,396	214,599	248,440	305,883
Maryland	46,847	115,540	250,580	380,538	565,857	782,757	899,640	1,120,826	1,492,484	1,813,960
Massachusetts	105,503	275,963	489,429	661,471	900,025	1,122,230	1,213,640	1,431,925	1,811,845	2,243,743
Michigan	78,184	192,572	427,110	633,490	840,855	1,088,090	1,336,312	1,557,918	1,917,892	2,416,451
Minnesota	36,518	113,415	195,327	330,635	480,122	645,505	716,826	855,752	1,057,576	1,312,911
Mississippi	*	12,028	35,203	80,452	115,973	168,393	191,675	219,552	262,671	332,307
Missouri	21,825	97,875	178,469	256,492	433,714	584,743	704,273	811,837	1,016,732	1,266,504
Montana	*	7,378	13,037	20,090	39,240	72,880	90,583	112,662	139,946	264,121
Nebraska	36,748	54,085	71,451	117,219	173,524	216,780	253,968	305,120	355,013	470,118
Nevada	23,272	59,489	109,300	158,508	246,714	343,111	401,932	474,019	614,151	782,840
New Hampshire	22,584	41,986	70,735	102,057	148,574	215,168	236,817	268,128	302,957	443,137
New Jersey	83,047	254,938	553,308	798,410	1,061,722	1,423,698	1,605,301	1,989,803	2,654,674	3,392,607
New Mexico	*	28,173	31,507	57,430	91,066	145,125	174,534	204,054	250,439	422,964
New York	133,770	530,242	1,109,662	1,623,989	2,152,711	2,688,731	3,067,983	3,660,500	4,852,849	5,669,523
North Carolina	57,881	136,703	357,380	593,609	841,572	1,119,805	1,222,648	1,482,930	1,601,938	2,366,079
North Dakota	*	4,227	6,082	20,024	31,571	47,957	86,274	96,314	108,476	131,348
Northern Mariana Isl.	0	0	0	0	0	0	0	*	*	*
Ohio	108,027	226,154	432,338	705,739	972,686	1,340,976	1,601,981	1,932,269	2,461,336	3,186,537
Oklahoma	95,033	92,647	111,918	193,123	282,596	387,456	444,777	502,984	569,398	652,296
Oregon	26,360	76,839	156,147	273,433	378,226	508,068	558,489	688,487	860,385	1,055,986
Pennsylvania	64,618	164,204	361,383	616,407	954,083	1,386,259	1,578,981	1,999,118	2,646,898	3,374,313
Puerto Rico	*	*	*	22,732	31,100	61,554	66,484	118,268	169,917	251,163
Rhode Island	*	30,038	63,284	88,701	121,027	164,034	185,415	221,901	276,141	349,994
South Carolina	25,229	63,914	135,165	222,980	310,906	415,844	464,315	549,019	645,886	1,041,762
South Dakota	*	2,839	9,585	18,060	28,557	40,286	112,506	124,243	138,621	154,738
Tennessee	66,044	121,602	236,514	368,242	470,092	628,846	682,369	847,025	1,153,432	1,573,992
Texas	132,497	492,960	806,853	1,312,096	1,883,228	2,551,963	2,943,487	3,467,504	4,371,655	5,452,666
Utah	11,149	35,071	71,804	120,313	161,283	236,287	259,150	313,854	471,137	638,618
Vermont	*	7,773	21,795	32,814	44,724	72,400	82,279	95,901	108,622	170,245
Virgin Islands	0	*	*	*	*	*	2,183	2,967	7,226	11,139
Virginia	44,456	130,917	281,793	450,389	702,245	981,832	1,117,591	1,367,465	1,787,359	2,183,019
Washington	71,930	195,628	335,667	485,063	672,247	889,368	1,000,412	1,219,631	1,575,375	2,015,564
West Virginia	*	6,498	32,848	78,980	100,937	155,397	178,323	205,984	245,597	268,746
Wisconsin	18,599	76,257	181,915	335,593	488,155	649,091	731,934	859,114	1,034,646	1,247,350
Wyoming	*	*	7,856	14,696	24,818	45,602	55,905	70,574	83,086	156,940
Nationwide	2,484,017	6,756,877	12,390,534	19,441,619	27,744,342	37,352,520	42,517,810	51,218,145	64,962,735	82,547,651

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

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

State	1999	2000	2001	2002	2003	2004	2005		2006	
	Dec	Dec	Dec	Dec	Dec	Dec	Jun	Dec	Jun	Dec
Alabama	*	12,320	34,785	56,860	112,274	135,282	177,196	220,657	268,970	314,640
Alaska	0	0	7,975	14,295	17,184	33,690	38,530	43,249	53,687	60,055
American Samoa	0	0	0	0	0	0	*	*	*	*
Arizona	*	32,395	53,489	72,324	87,263	136,260	152,937	207,727	276,261	365,228
Arkansas	*	*	22,240	35,594	60,435	100,987	127,445	149,878	180,883	199,793
California	122,855	622,894	928,345	1,485,309	2,065,780	2,700,380	3,078,824	3,592,220	4,001,529	4,342,556
Colorado	*	42,810	70,615	113,040	155,137	248,285	268,114	333,313	404,989	473,148
Connecticut	*	22,348	41,261	100,722	167,439	244,509	*	*	*	*
Delaware	*	*	*	*	*	16,490	*	*	*	*
District of Columbia	*	*	*	35,466	44,440	51,127	*	*	*	*
Florida	*	115,133	306,015	521,623	786,275	1,110,846	1,284,507	1,509,104	1,722,888	1,873,271
Georgia	*	56,588	172,556	305,004	452,567	636,170	757,720	890,128	1,008,705	1,126,082
Guam	0	0	0	0	0	*	*	*	*	*
Hawaii	*	*	*	*	*	*	*	*	*	*
Idaho	*	*	13,643	17,930	24,503	48,500	62,691	81,520	97,662	113,301
Illinois	3,150	48,278	110,448	300,497	466,052	707,771	847,522	979,709	1,094,088	1,211,763
Indiana	*	6,442	22,385	63,463	129,341	239,454	304,800	379,465	443,473	515,054
Iowa	*	*	13,193	29,161	48,226	88,707	118,777	150,890	189,267	233,039
Kansas	0	14,281	23,564	39,315	68,044	112,063	136,402	159,996	179,430	202,751
Kentucky	5,690	16,327	43,191	55,254	94,126	148,963	180,324	213,131	250,715	303,296
Louisiana	*	22,788	58,019	86,359	116,047	163,021	190,603	207,488	235,750	270,811
Maine	0	*	*	8,432	17,785	41,000	52,032	72,709	89,964	104,657
Maryland	*	*	79,997	115,687	152,906	249,379	305,677	379,316	450,019	489,553
Massachusetts	*	53,700	125,630	181,426	230,333	302,537	*	*	*	*
Michigan	786	25,482	52,505	111,182	175,202	299,861	374,861	463,373	533,835	606,616
Minnesota	*	40,870	67,527	98,316	134,914	188,181	227,988	276,439	330,736	394,743
Mississippi	*	*	*	*	41,740	71,993	88,252	105,874	128,585	154,179
Missouri	*	38,759	68,186	114,861	182,119	282,904	341,618	398,671	468,334	545,679
Montana	*	1,760	4,272	6,549	19,417	36,183	46,786	57,300	70,471	82,876
Nebraska	*	*	13,637	16,117	25,599	46,283	66,268	81,188	95,404	112,032
Nevada	*	10,023	17,598	36,662	61,014	93,145	116,395	139,938	168,086	190,202
New Hampshire	*	3,339	9,618	14,630	23,555	42,835	54,233	71,689	85,247	93,521
New Jersey	*	59,332	151,829	197,615	251,754	372,949	443,808	540,382	638,293	703,950
New Mexico	*	*	*	22,607	36,546	68,359	82,062	105,210	129,076	156,620
New York	9,307	124,146	285,814	391,686	497,071	641,321	736,769	861,452	1,001,018	1,103,960
North Carolina	*	23,815	65,582	124,031	210,958	340,520	412,991	488,533	561,102	648,001
North Dakota	*	*	4,849	8,826	14,034	23,874	26,841	32,000	38,729	46,346
Northern Mariana Isl.	0	0	0	0	0	0	0	*	*	*
Ohio	*	55,046	112,527	205,140	303,969	455,336	555,749	663,011	752,633	858,846
Oklahoma	*	*	39,978	65,378	106,031	158,490	189,496	222,048	246,899	277,282
Oregon	*	31,644	57,899	82,555	117,253	171,861	197,927	244,694	280,286	311,604
Pennsylvania	7,377	60,083	136,829	200,501	284,870	436,503	541,274	692,079	871,164	1,012,845
Puerto Rico	0	0	*	*	*	*	*	*	*	*
Rhode Island	0	*	*	*	*	*	*	*	*	*
South Carolina	*	5,168	18,686	38,293	77,599	128,042	154,666	205,529	242,548	289,537
South Dakota	*	*	2,869	6,308	11,635	18,357	20,632	26,168	32,763	39,684
Tennessee	*	13,705	42,571	74,034	116,785	193,879	237,180	293,915	348,344	396,928
Texas	*	158,513	300,752	486,833	772,697	1,104,776	1,300,681	1,513,639	1,733,423	1,997,483
Utah	*	17,352	33,306	57,025	76,466	113,033	129,607	160,313	189,240	222,307
Vermont	0	*	*	12,062	18,646	28,524	35,281	43,934	51,382	61,441
Virgin Islands	0	0	*	*	*	*	*	*	*	*
Virginia	7,425	26,750	65,298	96,805	144,584	254,355	308,947	384,243	440,990	505,285
Washington	*	79,130	140,273	200,189	262,149	338,321	363,796	427,451	491,409	533,668
West Virginia	0	*	*	*	*	39,566	53,292	69,390	86,507	104,637
Wisconsin	*	8,623	28,233	64,521	120,236	202,882	243,370	298,111	359,530	417,510
Wyoming	*	*	*	*	8,467	20,402	23,769	33,030	38,541	44,347
Nationwide	369,792	1,977,101	3,947,808	6,471,716	9,509,442	13,817,280	16,316,309	19,515,483	22,575,010	25,417,359

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

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

State	1999	2000	2001	2002	2003	2004	2005		2006	
	Dec	Dec	Dec	Dec	Dec	Dec	Jun	Dec	Jun	Dec
Alabama	8,415	36,432	83,933	144,259	207,397	233,004	257,225	285,177	310,548	342,340
Alaska	0	0	*	*		*	*	*	*	*
American Samoa	0	0	0	0	0	0	0	0	0	0
Arizona	*	*	151,916	251,373	396,960	549,613	583,897	679,284	761,419	838,455
Arkansas	*	*	*	*	86,441	106,055	117,953	137,105	148,940	183,503
California	221,472	476,544	786,789	1,179,204	1,706,217	2,213,138	2,467,232	2,734,659	2,956,932	3,155,718
Colorado	*	*	*	*	231,075	332,927	383,154	433,184	476,463	523,159
Connecticut	28,702	78,234	137,003	192,155	260,415	341,146	372,346	403,723	441,092	454,348
Delaware	*	*	*	*	*	*	*	*	*	*
District of Columbia	*	*	*	*	*	*	*	*	*	*
Florida	110,000	255,978	486,977	741,426	1,050,062	1,384,059	1,559,592	1,757,875	1,939,409	2,178,484
Georgia	18,114	75,474	156,142	243,142	361,127	468,027	522,800	583,884	649,583	846,736
Guam	0	0	0	0	0	0	0	0	0	0
Hawaii	*	*	0	*	*	*	*	*	*	*
Idaho	0	*	*	*	*	*	78,185	73,528	75,185	108,595
Illinois	*	126,490	204,202	316,169	494,110	691,214	841,737	955,518	1,042,272	1,152,096
Indiana	7,412	37,052	78,837	114,237	257,023	364,887	397,481	445,420	490,020	550,127
Iowa	14,027	48,008	63,788	83,994	131,073	163,293	186,821	219,803	225,545	234,266
Kansas	*	48,541	94,047	142,563	199,369	246,185	258,856	272,660	316,866	349,684
Kentucky	*	*	*	22,113	124,535	183,726	217,302	269,274	306,487	333,339
Louisiana	*	*	88,851	*	227,047	291,857	328,675	254,819	378,613	419,735
Maine	*	*	*	*	*	95,182	116,203	132,075	145,831	152,291
Maryland	*	65,668	143,174	241,264	385,408	501,144	546,576	592,283	637,405	781,120
Massachusetts	*	210,019	339,244	453,473	638,441	778,595	826,351	885,578	954,812	1,044,333
Michigan	51,111	130,296	329,697	472,405	611,131	733,511	891,842	953,786	1,019,338	1,103,040
Minnesota	14,346	64,215	113,900	212,126	317,853	404,135	440,726	493,783	518,063	541,116
Mississippi	*	*	12,998	40,276	61,163	80,210	95,805	104,363	114,140	135,965
Missouri	*	42,255	89,370	117,403	221,917	264,917	323,270	353,331	400,808	446,600
Montana	0	*	*	*	*	29,278	35,625	45,442	54,056	65,238
Nebraska	*	*	49,939	92,261	130,319	155,796	177,074	200,600	218,335	239,465
Nevada	*	*	*	*	*	*	*	*	*	*
New Hampshire	*	*	*	*	118,456	165,188	176,033	188,212	201,873	209,781
New Jersey	*	*	375,362	578,337	781,898	1,015,944	1,107,751	1,205,182	1,312,433	1,385,953
New Mexico	0	*	*	*	47,721	68,143	78,035	89,003	100,157	108,906
New York	110,382	377,521	780,473	1,185,233	1,597,556	1,976,663	2,216,153	2,444,565	2,765,476	2,967,028
North Carolina	24,200	73,092	239,107	406,024	559,276	691,904	762,203	861,990	650,767	1,040,513
North Dakota	0	*	*	*	13,030	17,307	50,781	54,772	57,722	70,878
Northern Mariana Isl.	0	0	0	0	0	0	0	0	0	0
Ohio	*	127,692	264,031	435,404	597,442	804,712	961,119	1,064,948	1,184,924	1,303,470
Oklahoma	*	*	*	*	*	*	233,993	261,585	284,184	312,500
Oregon	*	*	*	165,343	233,737	301,586	335,847	375,351	407,195	448,117
Pennsylvania	34,878	85,104	190,915	376,611	621,381	885,925	962,149	1,074,912	1,164,080	1,255,720
Puerto Rico	0	0	0	*	*	*	*	*	*	*
Rhode Island	*	*	*	*	*	*	*	*	*	*
South Carolina	15,176	44,812	96,559	159,944	209,889	252,646	290,233	326,370	368,338	412,939
South Dakota	0	*	*	7,916	11,042	14,103	83,667	88,812	92,860	100,155
Tennessee	*	77,760	158,120	252,596	308,630	386,258	422,063	460,235	506,143	601,889
Texas	76,520	227,070	427,324	740,469	1,019,623	1,320,225	1,467,804	1,617,513	1,692,433	1,944,069
Utah	*	*	*	*	*	*	*	*	*	*
Vermont	*	*	*	*	*	*	*	*	*	*
Virgin Islands	0	0	0	0	0	0	0	0	0	0
Virginia	23,140	78,585	182,591	320,154	517,924	681,914	748,694	817,100	892,955	866,086
Washington	*	*	*	246,627	367,321	498,934	585,125	660,159	725,832	806,126
West Virginia	*	*	*	65,542	78,018	108,585	117,538	128,133	145,450	144,569
Wisconsin	*	*	*	243,043	334,394	408,512	446,840	497,262	542,881	591,981
Wyoming	0	*	*	*	*	*	*	*	*	*
Nationwide	1,411,977	3,582,874	7,059,598	11,369,087	16,446,322	21,357,400	24,017,442	26,558,206	28,861,965	32,097,223

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

Table 13
High-Speed Lines by Type of End User as of December 31, 2006
(Over 200 kbps in at least one direction)

State	Residential	Business	Total
Alabama	616,392	282,458	898,850
Alaska	123,538	21,470	145,008
American Samoa	*	*	*
Arizona	1,220,053	612,511	1,832,564
Arkansas	385,669	39,016	424,685
California	7,707,939	4,045,826	11,753,765
Colorado	1,018,006	471,085	1,489,091
Connecticut	844,344	406,897	1,251,241
Delaware	169,563	104,171	273,734
District of Columbia	144,289	123,719	268,008
Florida	4,028,919	1,317,402	5,346,321
Georgia	1,869,159	782,190	2,651,349
Guam	*	*	*
Hawaii	294,863	122,811	417,674
Idaho	242,163	139,420	381,583
Illinois	2,401,478	915,587	3,317,065
Indiana	1,077,595	508,906	1,586,501
Iowa	452,699	201,995	654,694
Kansas	600,073	155,849	755,922
Kentucky	612,529	162,207	774,736
Louisiana	689,828	203,007	892,835
Maine	247,991	57,892	305,883
Maryland	1,347,366	466,594	1,813,960
Massachusetts	1,577,555	666,188	2,243,743
Michigan	1,734,686	681,765	2,416,451
Minnesota	952,244	360,667	1,312,911
Mississippi	275,423	56,884	332,307
Missouri	1,024,388	242,116	1,266,504
Montana	146,276	117,845	264,121
Nebraska	352,387	117,731	470,118
Nevada	550,643	232,197	782,840
New Hampshire	304,594	138,543	443,137
New Jersey	2,109,126	1,283,481	3,392,607
New Mexico	264,814	158,150	422,964
New York	4,129,160	1,540,363	5,669,523
North Carolina	1,659,657	706,422	2,366,079
North Dakota	116,643	14,705	131,348
Northern Mariana Islands	*	*	*
Ohio	2,141,752	1,044,785	3,186,537
Oklahoma	585,745	66,551	652,296
Oregon	775,041	280,945	1,055,986
Pennsylvania	2,279,971	1,094,342	3,374,313
Puerto Rico	199,715	51,448	251,163
Rhode Island	235,663	114,331	349,994
South Carolina	673,468	368,294	1,041,762
South Dakota	137,156	17,582	154,738
Tennessee	969,096	604,896	1,573,992
Texas	4,247,541	1,205,125	5,452,666
Utah	393,338	245,280	638,618
Vermont	135,596	34,649	170,245
Virgin Islands	10,242	897	11,139
Virginia	1,451,016	732,003	2,183,019
Washington	1,360,776	654,788	2,015,564
West Virginia	248,611	20,135	268,746
Wisconsin	1,012,294	235,056	1,247,350
Wyoming	89,719	67,221	156,940
Nationwide	58,243,921	24,303,730	82,547,651

* Data withheld to maintain firm confidentiality.

Table 14
Percentage of Residential End-User Premises with Access to High-Speed Services as of December 31, 2006

State	xDSL Availability Where ILECs Offer Local Telephone Service	Cable Modem Availability Where Cable Systems Offer Cable TV Service
Alabama	74%	92%
Alaska	78%	*
American Samoa	*	0%
Arizona	79%	99%
Arkansas	66%	72%
California	83%	98%
Colorado	86%	96%
Connecticut	*	100%
Delaware	*	*
District of Columbia	*	*
Florida	89%	97%
Georgia	90%	90%
Guam	*	0%
Hawaii	*	*
Idaho	75%	99%
Illinois	76%	98%
Indiana	74%	95%
Iowa	85%	90%
Kansas	78%	92%
Kentucky	85%	92%
Louisiana	78%	96%
Maine	67%	93%
Maryland	75%	99%
Massachusetts	*	98%
Michigan	64%	98%
Minnesota	85%	96%
Mississippi	71%	91%
Missouri	73%	97%
Montana	78%	88%
Nebraska	89%	95%
Nevada	88%	*
New Hampshire	61%	99%
New Jersey	87%	100%
New Mexico	74%	78%
New York	78%	99%
North Carolina	84%	95%
North Dakota	88%	83%
Northern Mariana Isl.	*	0%
Ohio	78%	98%
Oklahoma	74%	90%
Oregon	82%	95%
Pennsylvania	83%	96%
Puerto Rico	*	*
Rhode Island	*	*
South Carolina	79%	86%
South Dakota	78%	73%
Tennessee	83%	96%
Texas	72%	96%
Utah	86%	*
Vermont	64%	*
Virgin Islands	*	0%
Virginia	66%	94%
Washington	82%	96%
West Virginia	72%	87%
Wisconsin	76%	96%
Wyoming	80%	*
Nationwide	79%	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	1999	2000		2001		2002		2003		2004		2005		2006	
	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec
Zero	40.3 %	33.0 %	26.8 %	22.2 %	20.6 %	16.1 %	12.0 %	9.0 %	6.8 %	5.7 %	4.6 %	2.0 %	1.0 %	0.7 %	0.4 %
One	26.0	25.9	22.7	20.3	19.3	18.4	17.3	16.4	14.9	13.8	12.5	9.3	5.6	3.7	2.4
Two	15.5	17.8	18.4	16.7	15.7	16.2	16.8	16.9	17.1	16.8	16.3	14.1	11.9	8.2	5.7
Three	8.2	9.2	10.9	13.2	13.1	13.3	14.4	14.0	14.9	14.9	15.1	15.0	14.8	11.3	8.9
Four	4.3	4.9	6.1	8.2	9.1	9.6	10.3	10.6	11.2	11.6	12.2	12.6	13.5	12.9	11.4
Five	2.7	3.4	4.0	4.9	6.1	6.9	7.3	7.7	7.8	8.4	8.9	9.7	10.3	12.2	12.5
Six	1.7	2.5	3.0	3.6	4.2	4.6	5.0	5.3	5.8	6.1	6.3	6.8	7.8	10.4	11.7
Seven	0.8	1.7	2.3	2.8	3.2	3.2	3.9	4.0	4.2	4.4	4.6	5.3	5.7	8.7	10.0
Eight	0.3	0.8	2.0	2.2	2.5	2.8	2.7	3.1	3.3	3.6	3.6	4.0	4.6	7.1	8.3
Nine	0.2	0.4	1.6	1.9	2.0	2.4	2.2	2.5	2.6	2.8	3.1	3.8	4.0	5.8	6.7
Ten or More	0.0	0.4	2.4	3.9	4.0	6.4	8.0	10.5	11.4	11.8	12.8	17.5	20.7	19.1	22.0

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

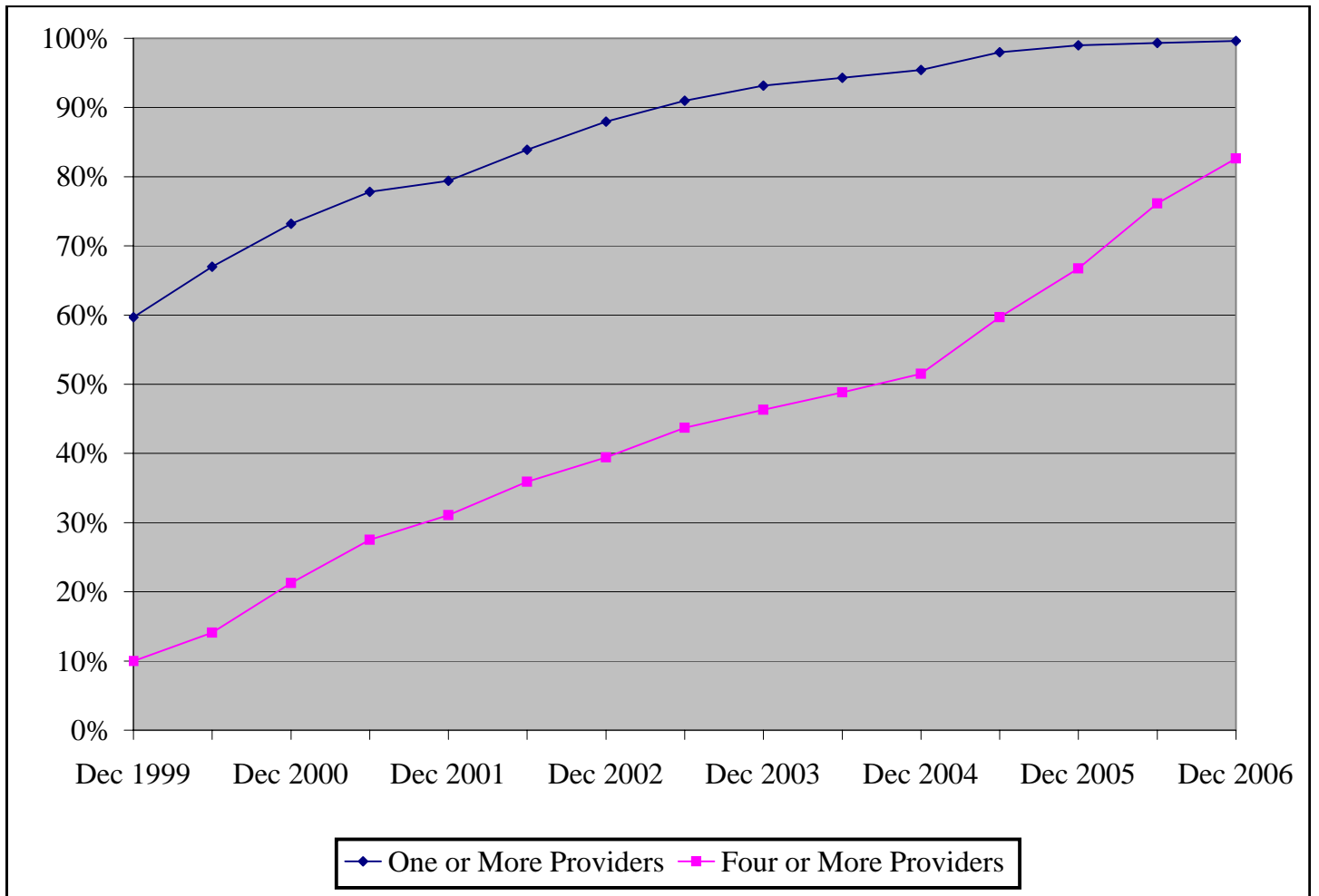


Table 16
Percentage of Zip Codes with High-Speed Lines in Service by Technology as of December 31, 2006

Technology	Number of Providers										
	Zero	One	Two	Three	Four	Five	Six	Seven	Eight	Nine	Ten or More
ADSL	16.2	38.8	20.5	11.5	7.0	3.6	1.5	0.6	0.2	0.0	0.0
SDSL	56.9	21.8	7.4	4.9	3.8	2.7	1.7	0.6	0.1	0.0	0.0
Cable Modem	34.8	55.6	8.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fiber	44.7	28.5	14.1	8.7	3.3	0.6	0.1	0.0	0.0	0.0	0.0
Satellite	9.1	34.8	35.2	20.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fixed Wireless	75.7	19.2	4.2	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Mobile Wireless	12.8	33.4	38.4	13.4	1.9	0.1	0.0	0.0	0.0	0.0	0.0
Power Line and/or Other ¹	81.8	12.1	4.8	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0
ADSL and/or Cable Modem	10.5	24.3	22.8	16.5	11.2	7.3	4.1	2.0	0.8	0.4	0.1
All Technologies	0.4	2.4	5.7	8.9	11.4	12.5	11.7	10.0	8.3	6.7	22.0

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 December 31, 2006)

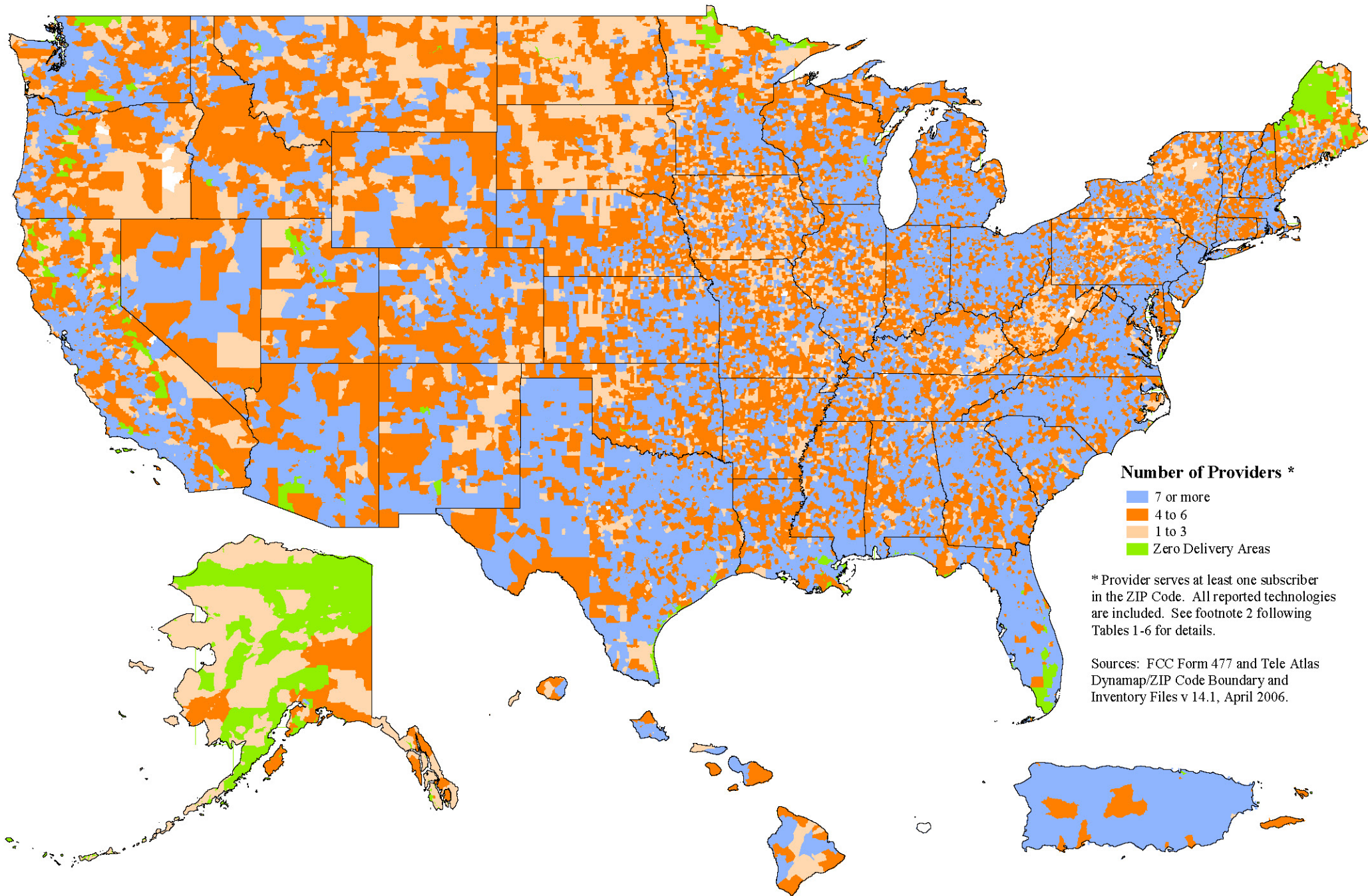


Table 17
Percentage of Zip Codes with High-Speed Lines in Service as of December 31, 2006
(Over 200 kbps in at least one direction)

	Number of Providers										
	Zero	One	Two	Three	Four	Five	Six	Seven	Eight	Nine	Ten or More
Alabama	0 %	2 %	3 %	8 %	10 %	12 %	14 %	10 %	11 %	7 %	23 %
Alaska	0	16	44	19	9	6	1	4	0	0	0
Arizona	0	0	1	1	9	8	9	7	9	7	48
Arkansas	0	1	8	14	19	18	12	11	4	4	8
California	0	1	3	6	8	9	7	7	8	8	44
Colorado	0	0	4	8	10	13	12	9	8	6	31
Connecticut	0	0	0	2	11	16	19	18	13	7	13
Delaware	0	0	2	5	10	17	22	19	7	7	10
District of Columbia	0	0	0	4	0	8	0	0	0	4	84
Florida	0	0	0	1	2	3	6	7	9	9	64
Georgia	0	1	2	6	11	12	13	10	7	6	33
Hawaii	0	3	8	10	11	19	9	9	17	12	2
Idaho	0	3	8	12	16	16	14	8	6	4	14
Illinois	0	2	8	11	14	12	11	8	7	7	20
Indiana	0	2	5	7	12	15	13	10	10	8	18
Iowa	1	7	13	17	16	14	11	6	5	4	6
Kansas	0	1	6	10	13	13	13	10	9	9	15
Kentucky	3	13	14	14	11	10	10	6	5	5	9
Louisiana	0	1	3	5	8	17	14	12	8	3	28
Maine	3	6	11	17	19	14	14	7	4	2	3
Maryland	0	1	3	6	11	13	9	11	6	5	33
Massachusetts	0	0	1	1	8	21	14	12	11	8	24
Michigan	0	0	1	4	9	13	16	12	11	9	25
Minnesota	1	4	10	13	13	12	10	8	6	4	20
Mississippi	0	1	3	7	10	18	15	9	10	5	23
Missouri	1	4	9	12	14	14	12	9	7	6	11
Montana	0	2	8	27	26	13	6	6	4	3	5
Nebraska	0	1	4	12	19	16	18	11	6	5	7
Nevada	0	0	1	5	9	9	14	14	12	11	24
New Hampshire	0	0	1	3	8	19	21	20	11	6	11
New Jersey	0	0	0	0	3	7	11	12	13	9	44
New Mexico	0	4	4	12	16	18	13	10	3	4	16
New York	0	3	5	10	13	14	12	11	8	8	17
North Carolina	0	1	1	4	8	13	13	15	7	9	29
North Dakota	0	2	27	30	24	8	3	2	1	1	2
Ohio	0	0	0	2	6	11	17	17	16	9	20
Oklahoma	0	2	4	10	15	17	13	10	10	7	11
Oregon	1	3	6	12	14	11	10	6	5	5	26
Pennsylvania	1	4	7	9	11	13	11	10	9	7	18
Puerto Rico	0	0	0	1	1	6	6	21	18	24	24
Rhode Island	0	1	3	4	8	16	12	14	15	11	16
South Carolina	0	1	2	4	9	13	10	14	10	8	28
South Dakota	0	5	26	22	18	11	10	3	1	2	3
Tennessee	0	2	5	8	13	10	13	7	8	7	25
Texas	0	0	2	4	6	9	10	13	13	11	30
Utah	0	3	3	10	11	14	12	7	6	4	30
Vermont	0	2	7	16	17	16	13	11	9	6	4
Virginia	1	2	4	7	11	14	11	13	10	7	20
Washington	0	2	3	10	11	10	9	10	5	6	34
West Virginia	2	13	17	19	15	14	9	3	4	2	1
Wisconsin	0	1	3	6	12	16	16	14	11	8	15
Wyoming	0	1	13	12	18	22	13	6	4	4	7
Nationwide	0 %	2 %	6 %	9 %	11 %	13 %	12 %	10 %	8 %	7 %	22 %

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						
	Dec 2000	Dec 2001	Dec 2002	Dec 2003	Dec 2004	Dec 2005	Dec 2006	Dec 2000	Dec 2001	Dec 2002	Dec 2003	Dec 2004	Dec 2005	Dec 2006
More Than 3,147	98.2 %	98.1 %	98.7 %	98.9 %	99.1 %	99.2 %	99.5 %	99.9 %	99.8 %	100.0 %	100.0 %	100.0 %	99.9 %	99.9 %
947-3,147	97.1	97.3	98.2	98.5	98.7	99.3	99.7	99.8	99.7	100.0	99.9	99.9	99.9	99.9
268-947	95.7	95.8	97.9	98.8	99.1	99.3	99.5	99.3	99.5	99.9	100.0	100.0	100.0	100.0
118-268	91.5	93.3	96.7	97.9	98.2	99.2	99.3	98.1	99.1	99.7	99.8	99.8	99.8	99.8
67-118	85.9	89.3	95.0	97.5	98.0	98.8	99.0	95.0	97.1	99.1	99.7	99.7	99.8	99.8
41-67	76.1	83.3	91.5	96.0	97.5	98.8	99.1	87.9	94.4	97.8	99.0	99.3	99.5	99.5
25-41	65.0	73.1	87.6	92.6	95.5	98.1	98.6	80.0	87.6	95.6	97.7	98.5	99.3	99.5
15-25	50.1	61.2	77.8	88.0	91.4	96.6	97.8	69.4	80.4	90.8	95.7	96.8	98.9	99.1
6-15	38.5	52.1	69.4	82.7	86.2	95.8	97.2	61.9	76.2	86.4	93.2	95.0	98.4	98.7
Fewer Than 6	27.5	43.3	59.7	73.5	74.8	88.3	89.8	49.9	67.9	80.9	88.9	91.8	96.2	96.8

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						
	Dec 2000	Dec 2001	Dec 2002	Dec 2003	Dec 2004	Dec 2005	Dec 2006	Dec 2000	Dec 2001	Dec 2002	Dec 2003	Dec 2004	Dec 2005	Dec 2006
\$53,494 to \$291,938	96.1 %	96.8 %	98.3 %	98.7 %	98.8 %	99.1 %	99.4 %	99.8 %	99.6 %	99.9 %	99.9 %	99.8 %	99.8 %	99.8 %
\$43,617 to \$53,478	88.9	91.7	95.3	97.4	97.6	98.7	99.0	99.0	99.3	99.8	99.9	99.9	99.9	99.9
\$38,396 to \$43,614	79.5	84.9	92.1	96.0	96.7	98.6	99.0	97.8	98.6	99.5	99.8	99.8	99.9	99.9
\$34,744 to \$38,395	74.5	79.9	88.2	94.0	95.0	98.2	98.7	96.6	97.6	99.1	99.6	99.7	99.8	99.9
\$32,122 to \$34,743	71.2	78.2	87.1	92.5	94.3	97.9	98.7	95.9	97.6	98.9	99.4	99.6	99.9	99.9
\$29,893 to \$32,121	67.4	75.5	85.6	91.8	93.8	98.2	98.6	94.5	96.8	98.5	99.3	99.4	99.8	99.8
\$27,542 to \$29,892	66.9	75.2	85.4	91.8	93.6	97.7	98.4	93.8	96.5	98.3	99.2	99.4	99.7	99.8
\$24,855 to \$27,541	65.1	71.8	83.2	89.8	92.6	97.6	98.2	93.1	95.6	98.1	98.9	99.2	99.6	99.6
\$21,645 to \$24,855	61.2	70.0	83.1	90.1	92.9	97.2	98.2	91.1	95.0	97.9	99.0	99.3	99.7	99.8
\$0 to \$21,644	54.9	62.7	74.5	81.9	83.3	90.1	91.3	91.5	95.1	97.5	98.6	99.0	99.4	99.5

¹ Persons per square mile and median household income are presented in decile groups. Each decile group contains 10% of the reported geographic Zip Codes for which the demographic information, as of the year 2000, is available in Demographic Power Pack, Current Year Update (2000), MapInfo Corporation.

Customer Response

Publication: *High-Speed Services for Internet Access: Status as of December 31, 2006*

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Data accuracy	()	()	()	()	()
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