

# **High-Speed Services for Internet Access: Status as of June 30, 2006**

Industry Analysis and Technology Division  
Wireline Competition Bureau  
January 2007



---

This report is available for reference in the FCC's Reference Information Center, Courtyard Level, 445 12th Street, SW, Washington, DC. Copies may be purchased by contacting Best Copy and Printing, Inc., 445 12th Street, SW, Room CY-B402, Washington, DC 20554, telephone (800) 378-3160, or via their website at [www.bcpiweb.com](http://www.bcpiweb.com). The report can also be downloaded from the Wireline Competition Bureau Statistical Reports Internet site at [www.fcc.gov/wcb/stats](http://www.fcc.gov/wcb/stats).

---

## High-Speed Services for Internet Access: Status as of June 30, 2006

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.<sup>1</sup> 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.<sup>2</sup>

We summarize here information from the fourteenth semi-annual data collection, thereby presenting a snapshot of subscribership as of June 30, 2006.<sup>3</sup> High-speed lines connecting homes and businesses to the Internet increased by 26% during the first half of 2006, from 51.2 million to 64.6 million lines in service, compared to a 21% increase, from 42.4 million to 51.2 million lines, during the second half of 2005. For the full twelve month period ending June 30, 2006, high-speed lines increased by 52% (or 22.2 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 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.<sup>4</sup> Prior to June 2005, providers with fewer than 250 high-speed lines (or wireless

---

<sup>1</sup> 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.

<sup>2</sup> *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](http://www.fcc.gov/formpage.html).

<sup>3</sup> 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](http://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](http://www.fcc.gov/wcb/stats).

<sup>4</sup> 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](http://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.

channels) in service in a particular state were not required to report data for that state.<sup>5</sup> 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.<sup>6</sup>

The data reported for June 30, 2006 include detail about the information transfer rates (“speeds”) of the reported connections and a breakdown of high-speed connections by type of technology.<sup>7</sup> 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 51.2 million lines to 64.6 million lines during the first half of 2006. For the full twelve month period ending June 30, 2006, high-speed lines increased by 22.1 million, from 42.4 million lines to 64.6 million lines. See Table 1 and Chart 1.
- ADSL lines increased by 3.1 million lines during the first half of 2006 compared to an increase of 2.0 million lines for cable modem service. For the full year, ADSL increased by 6.3 million lines compared to an increase of 4.6 million lines for cable modem service. See Table 1.
- Of the 64.6 million total high-speed lines, 44.1% were cable modem, 34.9% were ADSL, 1.5% were symmetric DSL (SDSL) or traditional wireline, 1.1% were fiber to the end user premises, and 18.4% used other technologies.<sup>8</sup> See Chart 2.

---

<sup>5</sup> 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 December 31, 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.

<sup>6</sup> 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 for the nationwide counts and, for state-specific counts, see Table 8.

<sup>7</sup> 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.

<sup>8</sup> 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 such as T-carrier, 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.

- Lines connecting homes and businesses to the Internet at transmission speeds that exceed 200 kbps in *both* directions increased from 43.8 million lines to 50.4 million lines during the first half of 2006. For the full twelve month period ending June 30, 2006, they increased by 13.2 million, from 37.3 million lines to 50.4 million lines. See Table 2 and Chart 3.
- Of the 50.4 million lines which were faster than 200 kbps in *both* directions, 55.9% were cable modem, 36.3% were ADSL, 1.9% were SDSL or traditional wireline, 1.4% were fiber to the end user premises, and 4.5% used other technologies. See Chart 4.
- Of the 64.6 million total high-speed lines, 50.3 million were designed to serve primarily residential end users. Cable modem represented 55.2% of these lines while 40.1% were ADSL, 0.2% were SDSL or traditional wireline connections, 0.9% were fiber to the end user premises, and 3.7% used other technologies. See Table 3 and Chart 6. For state-specific data, see Table 13.
- Of the 50.4 million lines that were faster than 200 kbps in *both* directions, 45.9 million lines were designed to serve primarily residential end users. Of these, cable modem represented 59.9% while 35.8% were ADSL, 0.2% were SDSL or traditional wireline, 1.0% were fiber to the end user premises, and 3.2% used other technologies. See Table 4 and Chart 8.
- Of the 50.4 million reported high-speed lines that were faster than 200 kbps in *both* directions as of June 30, 2006, 63.1% were at least 2.5 mbps in the faster direction and 36.9% were slower than 2.5 mbps in the faster direction. See Table 5.
- Incumbent LECs or their affiliates reported 96.7% of ADSL connections and 52.8% of traditional wireline connections. When all technologies are considered, incumbent LECs reported 49.5% 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 93% 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 99% of Zip Codes were listed by at least one provider.<sup>9</sup> The most widely reported technologies by this

---

<sup>9</sup> 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](http://www.fcc.gov/wcb/stats) in a format that honors requests for nondisclosure of information the reporting entities assert is competitively sensitive.

measure were satellite (with at least some presence reported in 90% of Zip Codes), ADSL (in 82% of Zip Codes), and cable modem (in 64% of Zip Codes). ADSL and/or cable modem connections were reported to be present in 88% of Zip Codes.<sup>10</sup> 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 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 99% of the most densely populated Zip Codes and in 89% of Zip Codes with the lowest population densities.<sup>11</sup> The comparable figure for the lowest-density Zip Codes was 84% 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 88% 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.

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](mailto:James.Eisner@fcc.gov) or [Suzanne.Mendez@fcc.gov](mailto: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.

---

<sup>10</sup> The 88% figure (more precisely, 87.9%) includes ZIP codes with either ADSL subscribers reported, cable modem subscribers reported, or both. In 57.8% 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 5.9% of ZIP codes there are cable modem subscribers reported but no ADSL subscribers reported.

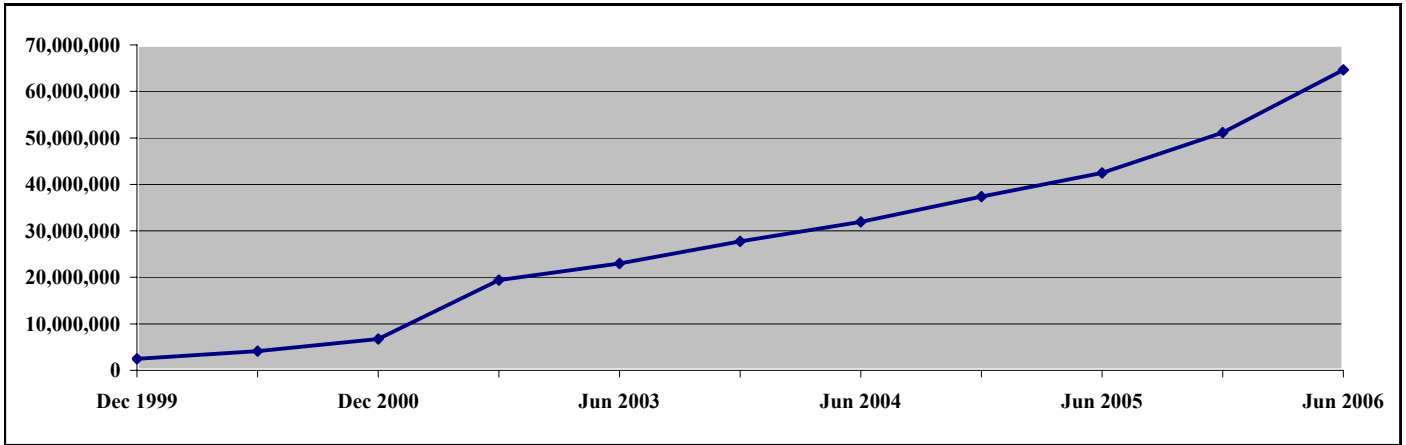
<sup>11</sup> For this comparison, we consider the most densely populated Zip Codes to be those with more than 3,147 persons per square mile (the top decile of Zip Codes) and the least densely populated Zip Codes to be those with fewer than 6 persons per square mile (the bottom decile).

**Table 1**  
**High-Speed Lines <sup>1</sup>**  
**(Over 200 kbps in at least one direction)**

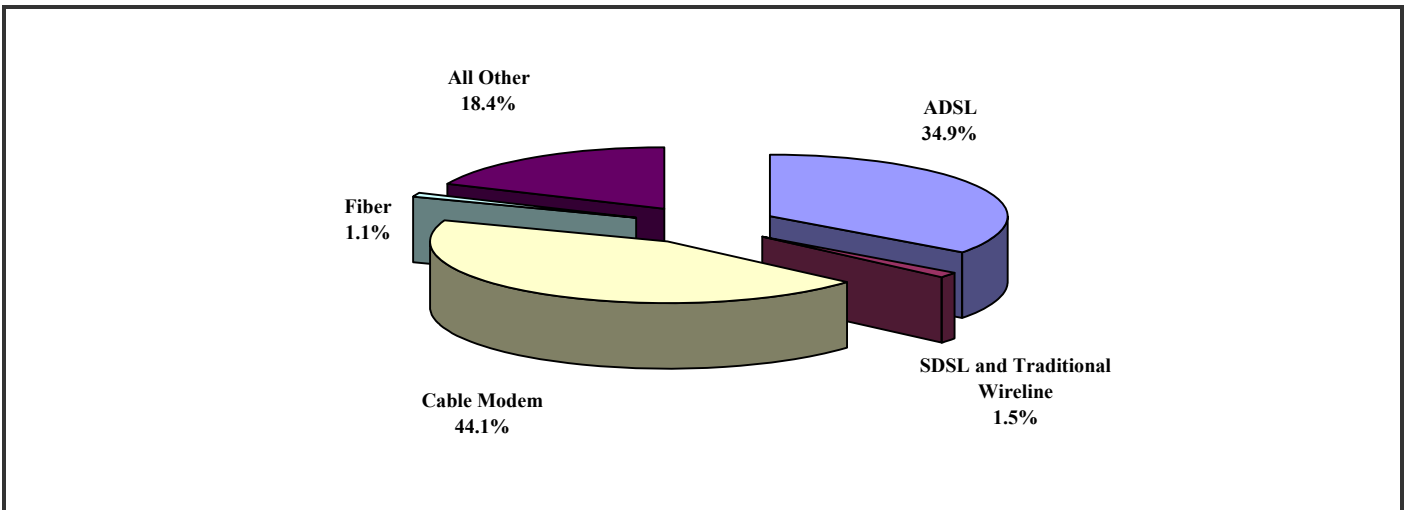
Technology <sup>2</sup>	2000	2001	2002	2003	2004		2005		2006
	Jun	Jun	Jun	Jun	Jun	Dec	Jun	Dec	Jun
ADSL	951,583	2,693,834	5,101,493	7,675,114	11,398,199	13,817,280	16,316,309	19,515,619	22,575,010
SDSL and Traditional Wireline	758,594	1,088,066	1,186,680	1,215,713	1,407,121	1,468,566	898,468	904,539	948,160
SDSL	-	-	-	-	-	-	411,731	394,348	337,438
Traditional Wireline	-	-	-	-	-	-	486,737	510,191	610,722
Cable Modem	2,284,491	5,184,141	9,172,895	13,684,225	18,592,636	21,357,400	23,936,536	26,469,242	28,513,500
Fiber <sup>3</sup>	46,635	81,248	105,991	111,386	130,928	159,653	315,651	448,257	700,083
Satellite and Wireless	65,615	194,707	220,588	309,006	421,690	549,621	965,068	3,814,122	11,872,309
Satellite	-	-	-	-	-	-	376,837	426,928	495,365
Fixed Wireless	-	-	-	-	-	-	208,695	257,431	360,976
Mobile Wireless	-	-	-	-	-	-	379,536	3,129,763	11,015,968
Power Line and Other	-	-	-	-	-	-	4,872	4,571	5,208
<b>Total Lines</b>	<b>4,106,918</b>	<b>9,241,996</b>	<b>15,787,647</b>	<b>22,995,444</b>	<b>31,950,574</b>	<b>37,352,520</b>	<b>42,436,904</b>	<b>51,156,350</b>	<b>64,614,270</b>

For data through December 2004, only those providers with at least 250 lines per state were required to file. Some 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 June 30, 2006**

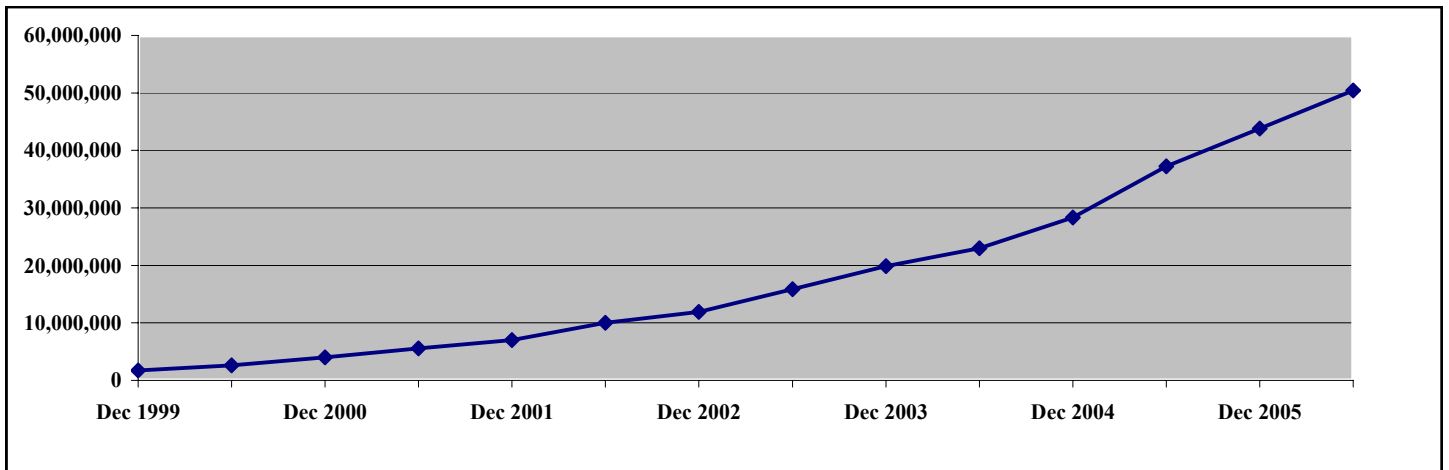


**Table 2**  
**Advanced Services Lines <sup>1</sup>**  
**(Over 200 kbps in both directions)**

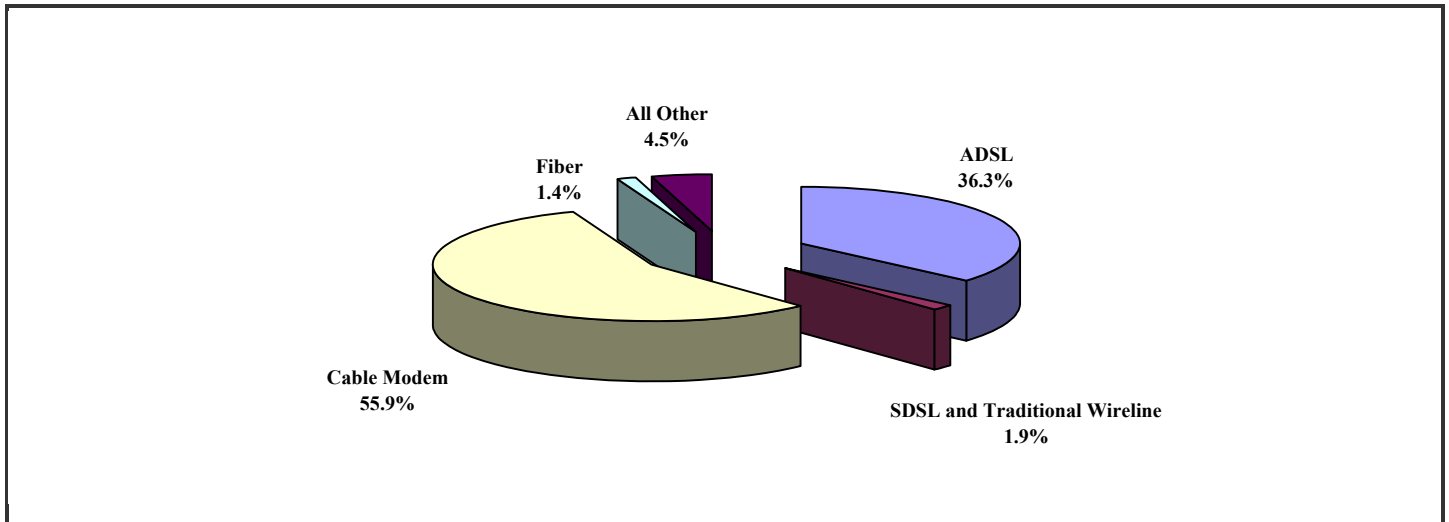
Technology <sup>2</sup>	2000	2001	2002	2003	2004		2005		2006
	Jun	Jun	Jun	Jun	Jun	Dec	Jun	Dec	Jun
ADSL	326,816	998,883	1,852,879	2,536,368	3,768,019	5,695,548	13,176,095	15,921,353	18,301,930
SDSL and Traditional Wireline	758,594	1,088,066	1,186,680	1,215,713	1,407,121	1,468,566	869,772	874,263	946,900
SDSL	-	-	-	-	-	-	387,451	368,736	336,612
Traditional Wireline	-	-	-	-	-	-	482,321	505,527	610,288
Cable Modem	1,469,130	3,329,976	6,819,395	11,935,866	17,567,468	20,891,624	22,664,106	26,200,400	28,220,563
Fiber <sup>3</sup>	40,627	81,204	104,015	110,829	129,636	157,127	314,229	447,244	698,990
Satellite and Wireless	3,649	73,476	66,073	64,393	93,805	106,616	223,274	340,110	2,274,465
Satellite	-	-	-	-	-	-	10,966	36,331	27,489
Fixed Wireless	-	-	-	-	-	-	191,229	220,276	333,072
Mobile Wireless	-	-	-	-	-	-	21,079	83,503	1,913,904
Power Line and Other	-	-	-	-	-	-	4,174	4,501	5,208
<b>Total Lines</b>	<b>2,598,816</b>	<b>5,571,605</b>	<b>10,029,042</b>	<b>15,863,169</b>	<b>22,966,048</b>	<b>28,319,482</b>	<b>37,251,651</b>	<b>43,787,871</b>	<b>50,448,057</b>

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

**Chart 3**  
**Advanced Services Lines**



**Chart 4**  
**Advanced Services Lines by Technology as of June 30, 2006**

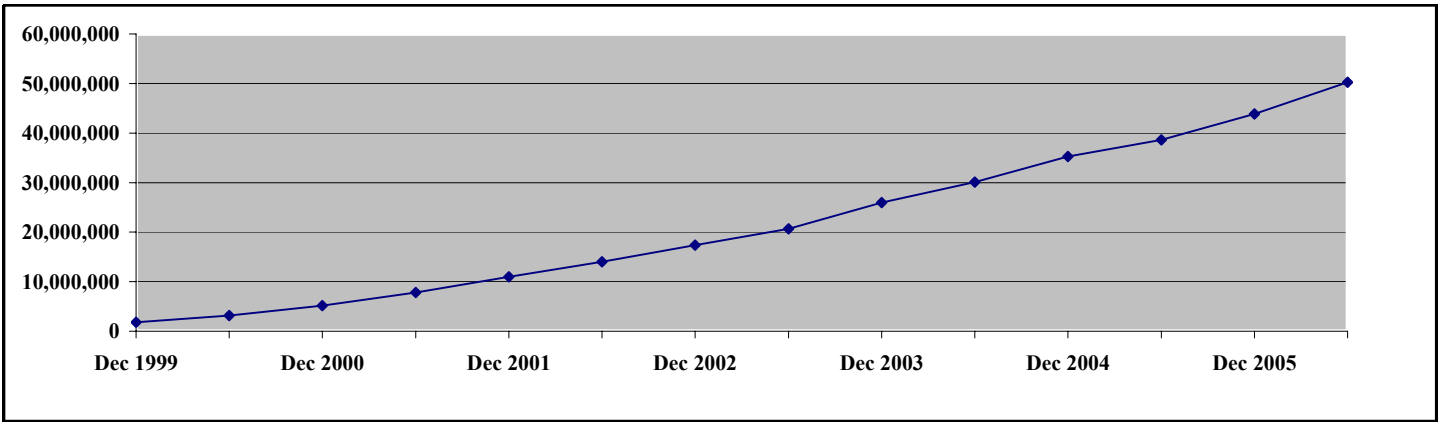


**Table 3**  
**Residential High-Speed Lines <sup>1</sup>**  
**(Over 200 kbps in at least one direction)**

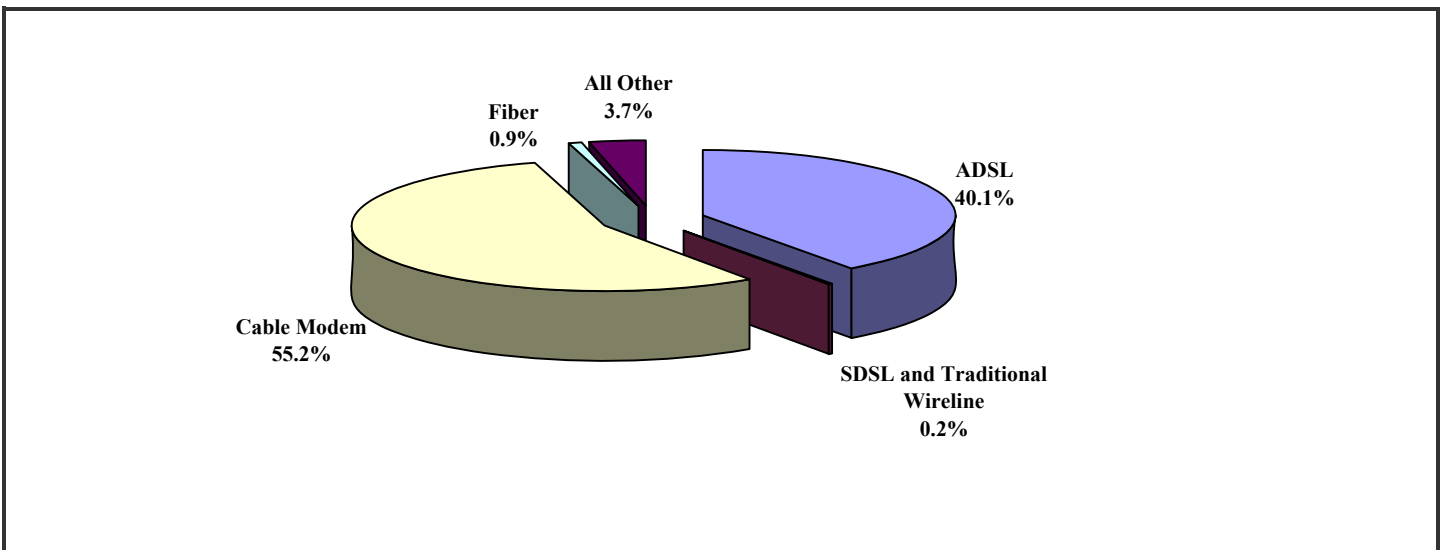
Technology <sup>2</sup>	2000	2001	2002	2003	2004		2005		2006
	Jun	Jun	Jun	Jun	Jun	Dec	Jun	Dec	Jun
ADSL	772,272	2,490,740	4,395,033	6,429,938	10,759,495	13,119,326	14,442,823	17,370,536	20,143,255
SDSL and Traditional Wireline	111,490	138,307	223,599	250,372	393,049	419,215	159,489	129,439	112,043
SDSL	-	-	-	-	-	-	153,978	122,215	102,631
Traditional Wireline	-	-	-	-	-	-	5,511	7,224	9,412
Cable Modem	2,215,259	4,998,540	9,157,285	13,660,541	18,525,265	21,270,158	23,497,069	25,625,191	27,720,407
Fiber <sup>3</sup>	325	2,623	6,120	16,132	22,719	34,959	83,293	213,484	442,027
Satellite and Wireless	64,320	182,165	202,251	288,786	387,563	422,623	428,367	533,480	1,839,368
Satellite	-	-	-	-	-	-	265,017	320,149	382,047
Fixed Wireless	-	-	-	-	-	-	160,775	203,188	301,153
Mobile Wireless	-	-	-	-	-	-	2,574	10,143	1,156,168
Power Line and Other	-	-	-	-	-	-	4,447	4,550	5,093
<b>Total Lines</b>	<b>3,163,666</b>	<b>7,812,375</b>	<b>13,984,287</b>	<b>20,645,769</b>	<b>30,088,091</b>	<b>35,266,281</b>	<b>38,615,489</b>	<b>43,876,680</b>	<b>50,262,193</b>

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. Data for December 2005 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 June 30, 2006**

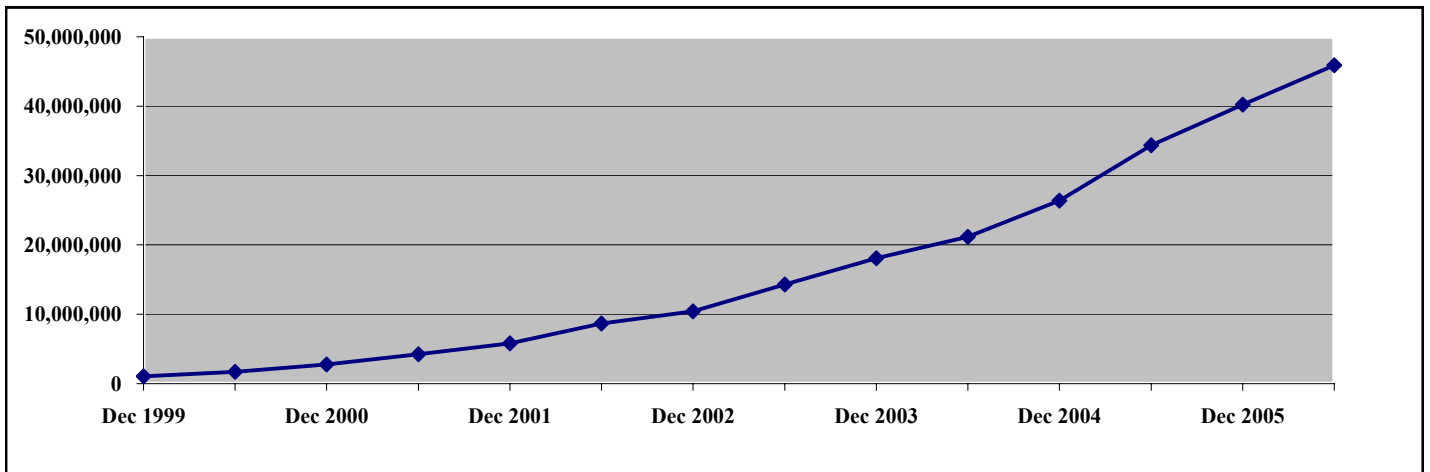


**Table 4**  
**Residential Advanced Services Lines <sup>1</sup>**  
**(Over 200 kbps in both directions)**

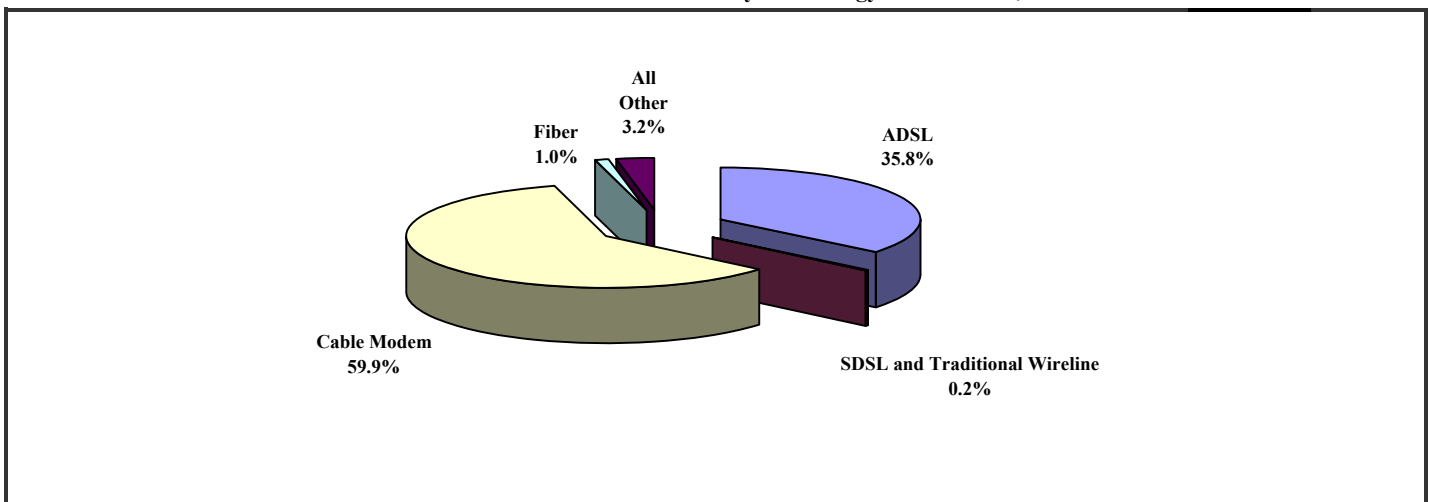
Technology <sup>2</sup>	2000	2001	2002	2003	2004		2005		2006
	Jun	Jun	Jun	Jun	Jun	Dec	Jun	Dec	Jun
ADSL	195,324	916,364	1,580,575	2,071,779	3,174,022	5,026,367	11,731,303	14,242,318	16,407,705
SDSL and Traditional Wireline	111,490	138,307	223,599	250,372	393,049	419,215	151,979	125,110	111,961
SDSL	-	-	-	-	-	-	149,862	122,215	102,606
Traditional Wireline	-	-	-	-	-	-	2,118	2,895	9,355
Cable Modem	1,401,434	3,146,953	6,809,170	11,920,207	17,505,907	20,811,704	22,243,481	25,444,150	27,479,801
Fiber <sup>3</sup>	325	2,617	5,118	15,751	21,866	33,189	82,831	212,865	441,128
Satellite and Wireless	2,916	60,988	47,787	46,407	72,485	84,465	150,893	205,470	1,448,607
Satellite	-	-	-	-	-	-	2,244	25,118	15,055
Fixed Wireless	-	-	-	-	-	-	146,074	170,522	277,384
Mobile Wireless	-	-	-	-	-	-	2,574	9,830	1,156,168
Power Line and Other	-	-	-	-	-	-	3,916	4,481	5,093
<b>Total Lines</b>	<b>1,711,488</b>	<b>4,265,229</b>	<b>8,666,249</b>	<b>14,304,515</b>	<b>21,167,329</b>	<b>26,374,940</b>	<b>34,364,403</b>	<b>40,234,394</b>	<b>45,894,295</b>

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. Data for December 2005 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 June 30, 2006**

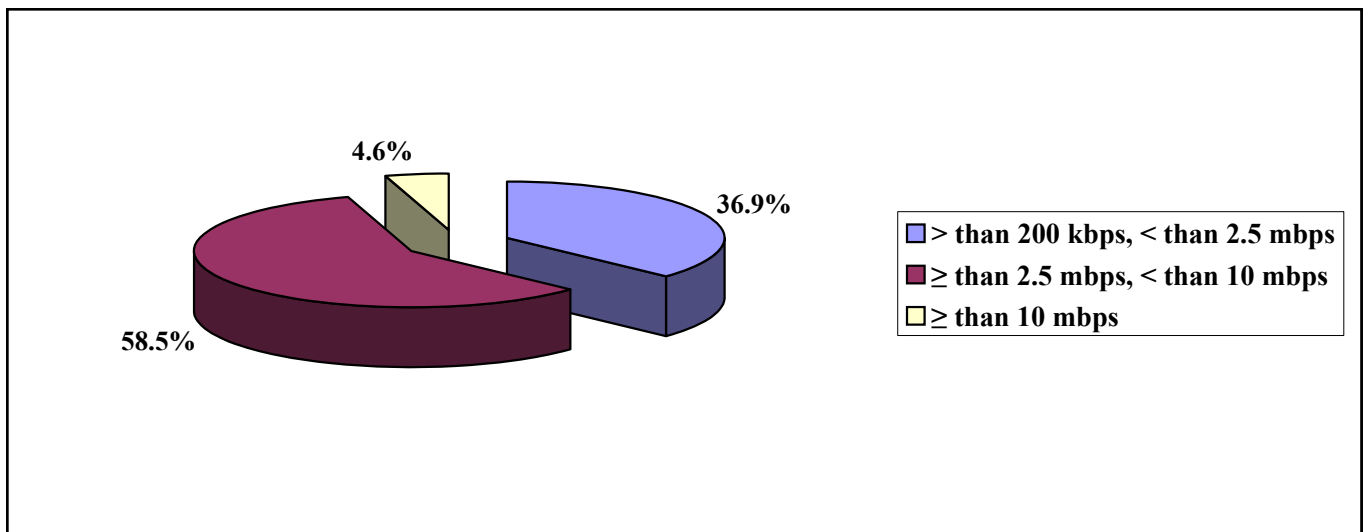


**Table 5**  
**High-Speed Lines by Information Transfer Rates <sup>1</sup>**  
**As of June 30, 2006**

Technology <sup>2</sup>	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	4,273,080	12,176,742	6,111,807	11,255	*	*
SDSL	826	327,370	9,223	11	*	*
Traditional Wireline	434	583,221	10,363	891	12,270	3,543
Cable Modem	292,937	3,053,382	23,039,748	2,099,654	27,779	0
Fiber <sup>3</sup>	1,093	221,227	315,266	133,339	15,778	13,380
Satellite	467,876	*	*	0	0	0
Fixed Wireless	27,904	313,011	17,220	2,580	207	54
Mobile Wireless	9,102,064	*	*	0	0	0
Power Line and Other	0	*	*	0	0	0
<b>Total Lines</b>	<b>14,166,213</b>	<b>18,618,973</b>	<b>29,506,209</b>	<b>2,247,730</b>	<b>57,101</b>	<b>18,044</b>

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

**Chart 9**  
**High-Speed Lines by Information Transfer Rates in the Faster Directions as of June 30, 2006**  
**(Includes only lines exceeding 200 kbps in both directions)**



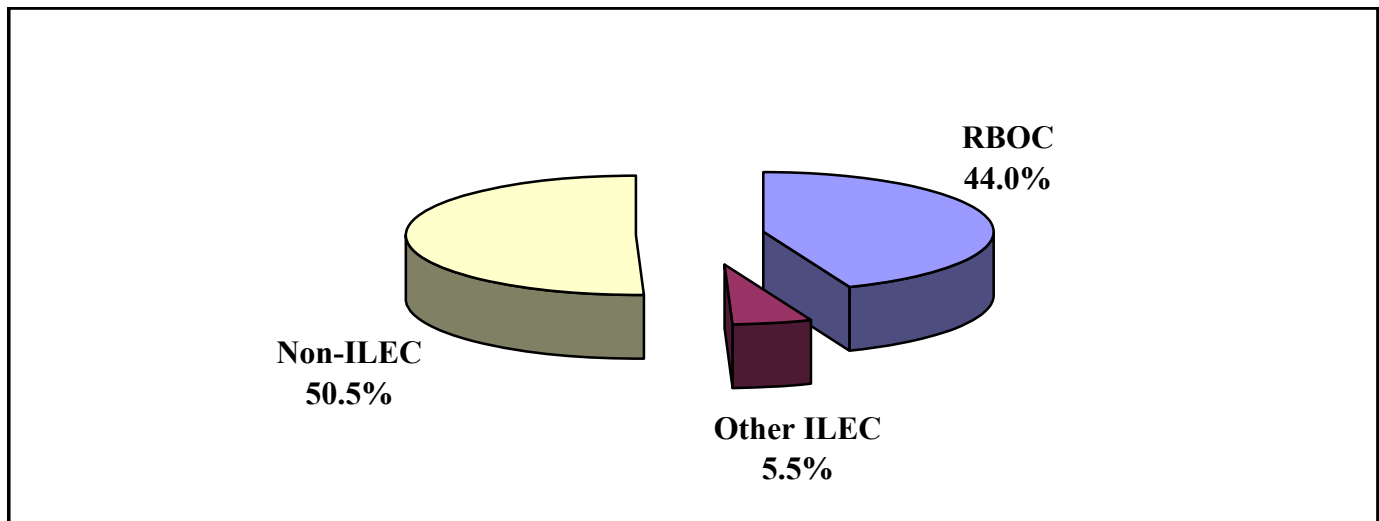
**Table 6**  
**High-Speed Lines by Type of Provider as of June 30, 2006**<sup>1</sup>  
(Over 200 kbps in at least one direction)

Technology <sup>2</sup>	Lines				Percent of Lines		
	RBOC <sup>4</sup>	Other ILEC	Non-ILEC <sup>5</sup>	Total	RBOC <sup>4</sup>	Other ILEC	Non-ILEC <sup>5</sup>
ADSL	18,479,477	3,342,278	753,255	22,575,010	81.9 %	14.8 %	3.3 %
SDSL	*	*	218,541	337,438	*	*	64.8
Traditional Wireline	308,773	13,468	288,481	610,722	50.6	2.2	47.2
Cable Modem	*	*	28,438,980	28,513,500	*	*	99.7
Fiber <sup>3</sup>	548,531	23,560	127,992	700,083	*	*	18.3
Satellite	0	0	495,365	495,365	0.0	0.0	100.0
Fixed Wireless	*	*	346,264	360,976	*	*	95.9
Mobile Wireless	*	*	1,952,810	11,015,968	*	*	17.7
Power Line and Other	0	0	5,208	5,208	0.0	0.0	100.0
<b>Total Lines</b>	<b>28,419,894</b>	<b>3,563,413</b>	<b>32,630,963</b>	<b>64,614,270</b>	<b>44.0 %</b>	<b>5.5 %</b>	<b>50.5 %</b>

\* 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, 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.

<sup>1</sup> 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.

<sup>2</sup> 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 "other" than ADSL and SDSL, including traditional telephone company high-speed services that provide equivalent functionality, and also 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; and electric power line.

<sup>3</sup> Fiber line counts included electric power line through December 2004. The June 2005 fiber counts reflect a downward correction by one or more filers. Fiber line counts prior to June 2005 have been adjusted to take into account this downward correction.

<sup>4</sup> RBOC lines include lines owned by A&T, BellSouth, Qwest and Verizon, and their affiliates.

<sup>5</sup> High-speed lines reported by competitive local exchange carriers (CLECs) or cable TV operations that are affiliated with a local exchange carrier are included in Non-ILEC lines, except for any such lines that are included in RBOC lines.

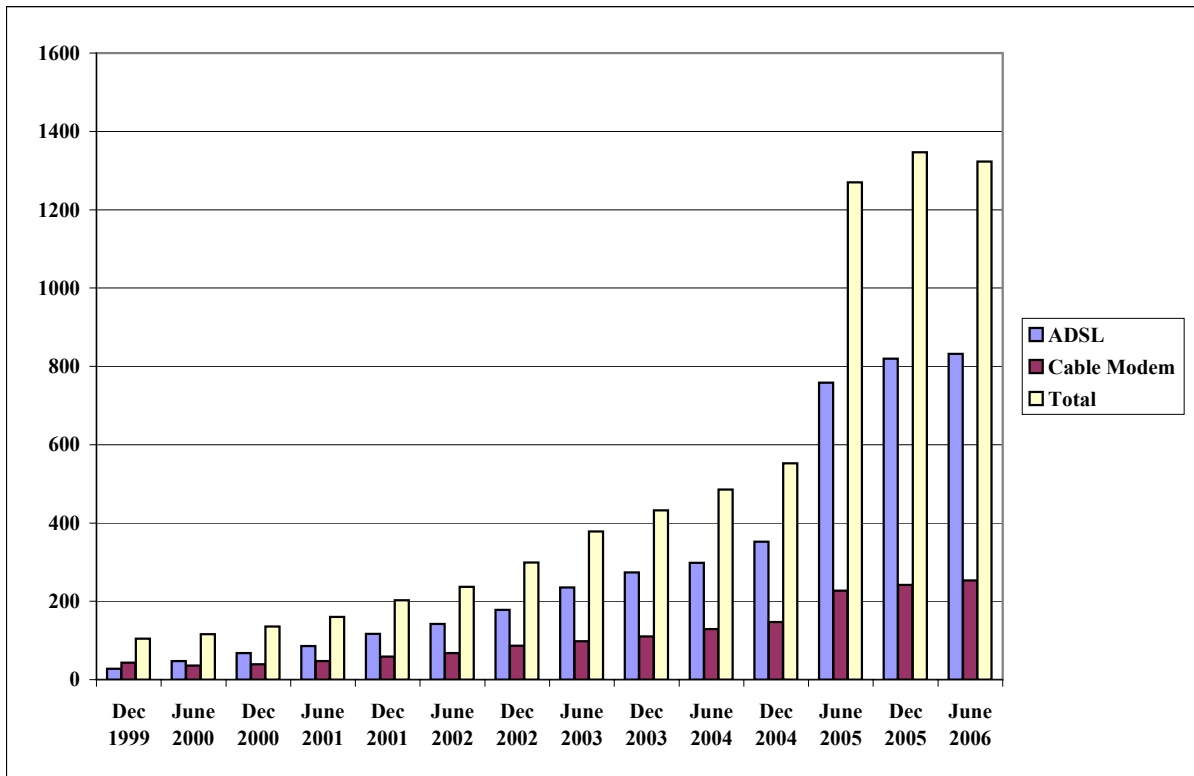
**Table 7**  
**Nationwide Number of Providers of High-Speed Lines by Technology**  
**(Over 200 kbps in at least one direction)**

	<b>ADSL</b>	<b>Cable Modem</b>	<b>All Other<sup>1</sup></b>	<b>Total</b>
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	253	814	1,323

For data through December 2004, only those providers with at least 250 lines per state were required to file. Data for December 2005 have been revised.

<sup>1</sup> 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, 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	34	10	17	18	8	*	5	*	*	64
Alaska	9	4	4	*	*	*	6	*	0	17
American Samoa	*	*	0	0	0	0	*	0	0	*
Arizona	20	8	15	8	6	*	14	5	0	54
Arkansas	20	8	11	8	5	*	4	*	0	43
California	26	19	23	18	12	*	21	*	0	76
Colorado	25	12	19	10	9	*	18	5	0	63
Connecticut	10	12	9	8	6	*	0	*	0	28
Delaware	7	6	8	*	*	*	0	*	0	21
District of Columbia	8	9	11	*	4	*	*	4	0	26
Florida	22	16	22	11	11	*	12	4	0	59
Georgia	37	15	20	19	13	*	4	5	0	68
Guam	*	0	*	0	0	0	0	0	0	*
Hawaii	*	*	5	*	*	*	*	*	0	13
Idaho	21	6	13	5	11	*	15	*	0	47
Illinois	51	24	32	16	8	*	36	4	*	113
Indiana	40	18	22	12	12	4	24	*	*	81
Iowa	126	47	30	36	19	*	33	*	0	181
Kansas	44	16	15	27	12	*	23	*	0	84
Kentucky	27	12	14	18	10	*	11	*	0	66
Louisiana	20	7	12	9	9	*	6	4	0	44
Maine	12	10	10	5	4	*	*	*	0	27
Maryland	10	12	12	12	7	*	*	4	0	41
Massachusetts	16	12	17	8	5	*	*	*	0	41
Michigan	32	13	19	13	9	*	9	*	*	62
Minnesota	68	24	17	15	18	*	17	*	0	101
Mississippi	18	*	14	9	6	*	*	*	0	43
Missouri	39	22	14	15	8	4	23	*	*	80
Montana	18	8	11	4	4	*	9	*	0	37
Nebraska	36	15	8	15	4	*	21	*	0	65
Nevada	14	8	12	*	5	*	4	4	0	31
New Hampshire	18	12	13	5	6	*	*	*	0	35
New Jersey	16	14	19	8	7	*	*	*	0	40
New Mexico	22	5	8	8	*	*	6	*	0	39
New York	38	20	27	14	11	*	10	*	0	72
North Carolina	31	18	16	11	9	*	6	4	0	57
North Dakota	23	12	12	6	8	*	11	*	0	40
Northern Mariana Island	*	0	*	0	*	0	*	0	0	*
Ohio	34	21	18	20	13	*	14	*	*	75
Oklahoma	39	9	19	9	6	*	11	*	0	65
Oregon	33	12	13	8	9	*	9	*	0	56
Pennsylvania	38	18	24	20	12	*	9	*	0	75
Puerto Rico	*	0	5	*	*	*	*	*	0	10
Rhode Island	9	11	10	4	5	*	0	*	0	22
South Carolina	22	8	17	15	10	*	*	*	0	41
South Dakota	25	11	8	7	8	4	7	*	0	41
Tennessee	29	13	15	14	8	*	4	*	0	59
Texas	64	25	30	17	16	*	52	6	0	133
Utah	17	11	9	*	7	*	9	4	0	38
Vermont	11	7	11	*	*	*	5	*	0	26
Virgin Islands	*	*	*	0	0	*	*	*	0	7
Virginia	24	13	20	13	11	*	10	5	*	62
Washington	29	13	16	11	17	*	18	*	*	62
West Virginia	9	4	7	9	*	*	*	*	0	25
Wisconsin	48	14	13	14	7	*	16	*	0	75
Wyoming	11	6	6	*	4	*	5	*	0	24
Nationwide	832	257	246	253	185	5	450	19	6	1,323

\* Indicates one to three providers.

**Table 9**  
**High-Speed Lines by Technology as of June 30, 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	268,970	9,409	5,691	310,548	995	*	704	*	*	615,510
Alaska	53,687	8,108	358	*	*	*	4,292	*	0	125,005
American Samoa	*	*	0	0	0	*	*	0	0	*
Arizona	276,261	1,741	8,114	761,419	2,272	*	16,964	*	0	1,392,711
Arkansas	180,883	920	2,974	148,940	2,148	*	581	*	0	363,933
California	4,001,529	38,728	161,115	2,956,932	132,473	*	39,329	*	0	9,395,285
Colorado	404,989	2,538	12,928	476,463	1,073	*	11,067	*	0	1,165,853
Connecticut	*	4,118	6,588	441,092	2,776	*	0	*	0	1,024,053
Delaware	*	307	1,528	*	*	*	0	*	0	157,648
District of Columbia	*	2,898	2,185	*	423	*	*	*	0	200,221
Florida	1,722,888	8,784	33,858	1,939,409	48,814	*	23,422	*	0	4,408,427
Georgia	1,008,705	8,230	22,043	649,583	1,900	*	503	*	0	2,054,077
Guam	*	0	*	0	0	*	0	0	0	*
Hawaii	*	*	2,224	*	*	*	*	*	0	294,612
Idaho	97,662	480	1,514	75,185	1,078	*	21,915	*	0	202,521
Illinois	1,094,088	14,523	40,916	987,640	*	*	19,750	*	*	2,611,672
Indiana	443,473	4,649	11,935	490,020	22,187	*	6,296	*	*	1,191,752
Iowa	189,267	4,114	2,250	225,545	2,133	*	11,651	*	0	446,657
Kansas	179,430	3,976	4,282	316,866	2,652	*	11,232	*	0	595,979
Kentucky	250,715	4,592	4,014	306,487	1,683	*	1,715	*	0	629,538
Louisiana	235,750	4,762	3,551	378,613	9,843	*	1,143	*	0	730,203
Maine	89,964	3,198	3,484	145,831	*	*	*	*	0	248,440
Maryland	450,019	7,202	11,003	637,405	*	*	*	*	0	1,492,484
Massachusetts	*	7,896	11,551	954,812	*	*	*	*	0	1,811,845
Michigan	533,835	4,059	23,377	888,018	12,378	*	2,755	*	*	1,786,572
Minnesota	330,736	20,216	4,954	518,063	4,897	*	20,203	*	0	1,057,576
Mississippi	128,585	*	1,824	114,140	448	*	*	*	0	262,671
Missouri	468,334	4,754	9,871	400,808	4,219	*	5,084	*	*	1,016,732
Montana	70,471	2,411	880	54,056	202	*	6,460	*	0	139,946
Nebraska	95,404	2,640	688	218,335	350	*	6,804	*	0	355,013
Nevada	168,086	1,144	7,683	*	1,407	*	3,430	*	0	614,151
New Hampshire	85,247	2,477	2,892	201,873	*	*	*	*	0	302,957
New Jersey	638,293	7,636	17,419	1,312,433	20,032	*	*	*	0	2,654,674
New Mexico	129,076	544	1,428	100,157	*	*	2,160	*	0	250,439
New York	1,001,018	26,755	21,789	2,765,476	54,134	*	464	*	0	4,852,849
North Carolina	561,102	24,545	14,569	650,767	6,670	*	12,917	*	0	1,601,938
North Dakota	38,729	4,282	287	19,861	2,592	*	2,859	*	0	70,615
Northern Mariana Island	*	0	*	0	*	*	*	0	0	*
Ohio	752,633	5,392	18,693	1,115,618	19,046	*	11,669	*	*	2,392,030
Oklahoma	246,899	1,937	4,545	284,184	3,816	*	1,947	*	0	569,398
Oregon	280,286	6,686	5,964	407,195	9,444	*	10,129	*	0	860,385
Pennsylvania	871,164	22,253	15,726	1,164,080	42,214	*	1,413	*	0	2,646,898
Puerto Rico	*	0	3,406	*	*	*	*	*	0	169,917
Rhode Island	*	1,318	1,649	*	1,488	*	0	*	0	276,141
South Carolina	242,548	225	7,402	368,338	3,792	*	*	*	0	645,886
South Dakota	32,763	3,999	215	37,514	840	*	4,375	*	0	83,275
Tennessee	348,344	2,475	9,293	506,143	5,707	*	150	*	0	1,153,432
Texas	1,733,423	15,471	32,321	1,692,433	104,719	*	51,814	*	0	4,371,655
Utah	189,240	4,378	2,974	*	766	*	8,642	*	0	471,137
Vermont	51,382	1,129	1,864	*	*	*	409	*	0	108,622
Virgin Islands	*	*	*	0	0	*	*	*	0	7,226
Virginia	440,990	6,752	17,121	892,955	43,338	*	6,219	*	*	1,787,359
Washington	491,409	6,919	10,448	725,832	14,206	*	12,721	*	*	1,575,375
West Virginia	86,507	2,832	1,833	145,450	*	*	*	*	0	245,597
Wisconsin	359,530	7,725	15,252	542,881	*	*	4,078	*	0	1,034,646
Wyoming	38,541	1,247	164	*	56	*	2,126	*	0	83,086
Nationwide	22,575,010	337,438	610,722	28,513,500	700,083	495,365	360,976	11,015,968	5,208	64,614,270

\* 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	Jun	Jun	Jun	Jun	Jun	Dec	Jun	Dec	Jun
Alabama	19,796	32,756	86,234	172,365	283,946	350,691	410,054	455,300	531,976	615,510
Alaska	*	*	20,906	46,791	61,121	88,076	110,416	95,761	109,484	125,005
American Samoa	0	0	0	0	0	*	0	*	*	*
Arizona	57,351	109,867	154,883	305,304	441,227	618,677	745,957	809,819	1,039,553	1,392,711
Arkansas	8,155	15,539	40,803	84,061	128,100	188,185	220,051	258,270	302,881	363,933
California	507,844	862,835	1,639,921	2,527,275	3,378,373	4,608,822	5,294,566	5,954,876	7,337,831	9,395,285
Colorado	34,677	61,408	142,295	238,702	338,083	515,081	615,101	688,189	882,669	1,165,853
Connecticut	35,044	61,903	146,266	233,277	364,371	516,039	598,582	679,891	807,796	1,024,053
Delaware	1,183	3,242	12,158	35,941	54,272	74,732	91,975	108,554	132,399	157,648
District of Columbia	6,344	9,243	28,861	44,266	58,800	83,213	101,638	113,086	139,594	200,221
Florida	182,455	234,807	634,703	1,103,236	1,634,552	2,236,963	2,659,862	2,958,350	3,537,720	4,408,427
Georgia	65,993	118,630	285,637	494,263	748,016	1,039,440	1,205,282	1,328,956	1,610,750	2,054,077
Guam	0	0	0	0	0	*	*	*	*	*
Hawaii	*	*	*	*	*	*	*	*	*	294,612
Idaho	*	8,070	20,233	43,119	64,353	99,845	126,121	149,023	167,926	202,521
Illinois	61,884	148,600	325,855	525,817	840,632	1,270,907	1,497,803	1,817,481	2,159,932	2,611,672
Indiana	18,797	47,982	77,617	156,375	233,679	515,812	637,696	742,667	922,568	1,191,752
Iowa	19,258	49,159	72,583	102,932	162,257	229,811	266,794	325,701	394,359	446,657
Kansas	26,179	42,679	101,478	149,415	248,405	322,742	386,747	419,384	470,287	595,979
Kentucky	23,570	24,237	39,297	90,284	121,594	300,704	360,903	408,184	508,198	629,538
Louisiana	28,133	43,294	121,685	207,257	315,682	420,917	486,077	536,934	508,009	730,203
Maine	19,878	17,864	37,888	61,069	85,212	123,739	142,246	176,396	214,599	248,440
Maryland	46,847	64,130	171,423	306,504	458,128	655,588	782,757	899,640	1,120,826	1,492,484
Massachusetts	105,503	175,243	342,643	566,796	802,423	1,004,229	1,122,230	1,213,640	1,431,925	1,811,845
Michigan	78,184	131,692	389,441	531,524	729,113	946,819	1,088,090	1,336,312	1,558,034	1,786,572
Minnesota	36,518	62,983	143,819	269,433	394,982	561,411	645,505	716,826	855,753	1,057,576
Mississippi	*	6,271	21,185	57,168	95,628	139,429	168,393	191,675	219,552	262,671
Missouri	21,825	44,924	120,863	220,477	362,040	537,343	584,743	704,273	811,811	1,016,732
Montana	*	*	10,446	17,969	28,023	57,650	72,880	90,583	112,662	139,946
Nebraska	36,748	44,188	55,188	92,849	141,172	199,282	216,780	253,968	305,120	355,013
Nevada	23,272	40,297	78,076	137,407	209,028	290,518	343,111	401,932	474,019	614,151
New Hampshire	22,584	32,774	55,241	85,697	118,304	168,000	215,168	236,817	268,128	302,957
New Jersey	83,047	120,549	394,198	654,235	924,835	1,194,557	1,423,698	1,605,301	1,989,803	2,654,674
New Mexico	*	2,671	20,099	44,462	71,355	115,147	145,125	174,534	204,054	250,439
New York	133,770	281,641	811,386	1,364,556	1,891,457	2,349,956	2,688,731	3,067,983	3,660,500	4,852,849
North Carolina	57,881	81,998	205,100	461,378	680,828	965,761	1,119,805	1,222,648	1,482,930	1,601,938
North Dakota	*	2,437	6,277	14,164	25,474	39,274	47,957	56,044	60,871	70,615
Northern Mariana Isl.	0	0	0	0	0	0	0	0	*	*
Ohio	108,027	154,597	354,258	575,756	817,020	1,152,300	1,340,976	1,601,981	1,932,269	2,392,030
Oklahoma	95,033	161,601	90,147	148,006	231,106	331,605	387,456	444,777	502,984	569,398
Oregon	26,360	43,217	91,457	197,778	316,300	437,040	508,068	558,489	688,487	860,385
Pennsylvania	64,618	71,413	249,119	501,950	755,947	1,123,876	1,386,259	1,578,981	1,999,118	2,646,898
Puerto Rico	*	*	*	*	32,063	43,091	61,554	66,484	118,268	169,917
Rhode Island	*	19,899	48,258	71,463	104,444	141,981	164,034	185,415	221,901	276,141
South Carolina	25,229	32,824	96,839	175,088	262,868	354,877	415,844	464,315	549,019	645,886
South Dakota	*	3,516	5,448	12,555	22,016	34,026	40,286	61,830	70,721	83,275
Tennessee	66,044	87,012	151,706	293,516	413,476	534,597	628,846	682,369	847,025	1,153,432
Texas	132,497	252,721	614,704	1,015,245	1,571,250	2,203,490	2,551,963	2,943,487	3,467,705	4,371,655
Utah	11,149	18,997	54,005	92,623	133,467	196,590	236,287	259,150	313,854	471,137
Vermont	*	1,551	16,230	29,990	39,773	56,033	72,400	82,279	95,901	108,622
Virgin Islands	0	*	*	*	*	*	*	2,183	2,967	7,226
Virginia	44,456	64,740	202,663	348,716	553,635	817,881	981,832	1,117,591	1,367,465	1,787,359
Washington	71,930	118,723	227,066	422,348	577,378	775,027	889,368	1,000,412	1,220,058	1,575,375
West Virginia	*	1,835	16,697	58,209	90,173	127,283	155,397	178,323	205,984	245,597
Wisconsin	18,599	34,262	127,172	256,735	401,565	564,670	649,091	731,934	859,114	1,034,646
Wyoming	*	*	*	10,990	17,507	35,464	45,602	55,905	70,574	83,086
Nationwide	2,484,017	4,106,918	9,241,996	15,787,647	22,995,444	31,950,574	37,352,520	42,436,904	51,156,350	64,614,270

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

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

State	2000	2001	2002	2003	2004		2005		2006
	Jun	Jun	Jun	Jun	Jun	Dec	Jun	Dec	June
Alabama	*	*	45,350	70,639	112,059	135,282	177,196	220,657	268,970
Alaska	0	*	11,337	14,013	20,686	33,690	38,530	43,249	53,687
American Samoa	0	0	0	0	0	0	*	*	*
Arizona	*	39,828	68,280	77,368	108,735	136,260	152,937	207,727	276,261
Arkansas	*	*	28,477	44,801	80,981	100,987	127,445	149,878	180,883
California	373,574	735,677	1,214,543	1,715,998	2,342,186	2,700,380	3,078,824	3,592,220	4,001,529
Colorado	*	52,617	100,197	126,189	201,523	248,285	268,114	333,313	404,989
Connecticut	*	30,142	61,093	124,742	204,034	244,509	*	*	*
Delaware	*	*	*	*	10,572	16,490	*	*	*
District of Columbia	*	16,313	28,723	39,471	44,231	51,127	*	*	*
Florida	37,806	170,702	391,188	644,621	928,402	1,110,846	1,284,507	1,509,104	1,722,888
Georgia	*	106,649	237,922	368,372	535,088	636,170	757,720	890,128	1,008,705
Guam	0	0	0	0	*	*	*	*	*
Hawaii	*	*	*	*	*	*	*	*	*
Idaho	*	*	16,108	19,382	35,166	48,500	62,691	81,520	97,662
Illinois	12,812	89,080	195,560	363,733	588,906	707,771	847,522	979,709	1,094,088
Indiana	*	2,375	36,685	85,968	179,942	239,454	304,800	379,465	443,473
Iowa	*	9,532	18,751	39,386	65,580	88,707	118,777	150,890	189,267
Kansas	*	*	28,713	50,839	88,246	112,063	136,402	159,996	179,430
Kentucky	*	20,256	55,454	75,316	119,709	148,963	180,324	213,131	250,715
Louisiana	*	37,444	73,120	100,919	136,406	163,021	190,603	207,488	235,750
Maine	*	6,877	*	11,052	31,577	41,000	52,032	72,709	89,964
Maryland	*	51,051	95,439	126,873	192,139	249,379	305,677	379,316	450,019
Massachusetts	15,802	82,699	147,139	207,344	253,576	302,537	*	*	*
Michigan	*	41,428	80,588	135,360	236,310	299,861	374,861	463,373	533,835
Minnesota	25,975	51,640	86,184	115,244	159,137	188,181	227,988	276,439	330,736
Mississippi	*	*	*	33,650	52,892	71,993	88,252	105,874	128,585
Missouri	*	53,250	84,642	138,046	233,916	282,904	341,618	398,671	468,334
Montana	*	2,842	7,108	13,119	28,238	36,183	46,786	57,300	70,471
Nebraska	*	9,293	11,547	18,285	35,180	46,283	66,268	81,188	95,404
Nevada	*	*	24,073	47,934	74,879	93,145	116,395	139,938	168,086
New Hampshire	*	5,651	11,781	17,823	31,843	42,835	54,233	71,689	85,247
New Jersey	*	102,430	172,472	211,540	301,789	372,949	443,808	540,382	638,293
New Mexico	*	7,578	18,224	26,948	51,375	68,359	82,062	105,210	129,076
New York	41,656	197,135	338,229	438,241	536,980	641,321	736,769	861,452	1,001,018
North Carolina	8,662	41,332	89,680	161,642	264,248	340,520	412,991	488,533	561,102
North Dakota	*	*	6,575	11,593	19,412	23,874	26,841	32,000	38,729
Northern Mariana Isl.						0	0	*	*
Ohio	33,603	87,567	151,612	243,689	369,386	455,336	555,749	663,011	752,633
Oklahoma	*	31,321	50,617	78,248	129,996	158,490	189,496	222,048	246,899
Oregon	19,989	25,877	68,747	95,654	142,483	171,861	197,927	244,694	280,286
Pennsylvania	18,313	89,595	162,258	230,322	346,720	436,503	541,274	692,079	871,164
Puerto Rico	0	*	*	*	*	*	*	*	*
Rhode Island	*	*	*	*	*	*	*	*	*
South Carolina	*	9,704	26,184	52,667	98,583	128,042	154,666	205,529	242,548
South Dakota	*	1,652	4,389	8,637	15,230	18,357	20,632	26,168	32,763
Tennessee	*	22,902	57,984	92,777	147,922	193,879	237,180	293,915	348,344
Texas	73,117	197,668	368,796	597,447	930,997	1,104,776	1,300,681	1,513,639	1,733,423
Utah	*	23,476	47,637	65,648	95,656	113,033	129,607	160,313	189,240
Vermont	*	*	9,409	15,072	22,519	28,524	35,281	43,934	51,382
Virgin Islands	0	*	*	*	*	*	*	*	*
Virginia	9,510	39,114	75,524	114,797	196,568	254,355	308,947	384,243	440,990
Washington	52,345	64,812	172,652	225,377	300,804	338,321	363,796	427,451	491,409
West Virginia	*	*	*	*	*	39,566	53,292	69,390	86,507
Wisconsin	1,063	17,800	42,052	84,100	159,167	202,882	243,370	298,111	359,530
Wyoming	*	*	*	5,503	13,510	20,402	23,769	33,030	38,541
Nationwide	951,583	2,693,834	5,101,493	7,675,114	11,398,199	13,817,280	16,316,309	19,515,619	22,575,010

\* Data withheld to maintain firm confidentiality. Some data for December 2005 have been revised.

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

State	2000	2001	2002	2003	2004		2005		2006
	Jun	Jun	Jun	Jun	Jun	Dec	Jun	Dec	Dec
Alabama	17,164	47,325	104,990	181,338	206,208	233,004	257,225	285,177	310,548
Alaska	0	0	*	*	*	*	*	*	*
American Samoa	0	0	0	0	0	0	0	0	0
Arizona	*	*	194,431	319,272	457,869	549,613	583,897	679,284	761,419
Arkansas	*	*	*	*	95,528	106,055	117,953	137,105	148,940
California	297,415	609,174	1,013,503	1,395,435	1,929,080	2,213,138	2,467,232	2,734,659	2,956,932
Colorado	*	*	*	181,766	280,909	332,927	383,154	433,184	476,463
Connecticut	47,127	106,019	160,913	227,658	299,176	341,146	372,346	403,723	441,092
Delaware	*	*	*	*	*	*	*	*	*
District of Columbia	*	*	*	*	*	*	*	*	*
Florida	129,830	372,190	595,806	867,513	1,171,641	1,384,059	1,559,592	1,757,875	1,939,409
Georgia	48,947	109,922	183,886	289,922	407,038	468,027	522,800	583,884	649,583
Guam	0	0	0	0	0	0	0	0	0
Hawaii	*	*	*	*	*	*	*	*	*
Idaho	*	*	*	*	*	*	78,185	73,528	75,185
Illinois	83,737	144,872	242,394	383,069	589,025	691,214	841,737	955,518	987,640
Indiana	33,431	56,441	98,414	122,338	304,866	364,887	397,481	445,420	490,020
Iowa	42,081	59,253	77,592	111,748	151,299	163,293	186,821	219,803	225,545
Kansas	*	74,337	111,615	181,437	209,233	246,185	258,856	272,660	316,866
Kentucky	*	*	12,867	23,672	154,567	183,726	217,302	269,274	306,487
Louisiana	*	64,219	115,198	189,920	257,405	291,857	328,675	254,819	378,613
Maine	*	*	*	*	*	95,182	116,203	132,075	145,831
Maryland	42,412	97,466	181,864	306,442	433,754	501,144	546,576	592,283	637,405
Massachusetts	148,233	243,670	391,391	564,961	704,956	778,595	826,351	885,578	954,812
Michigan	94,586	301,842	402,642	543,336	656,263	733,511	891,842	953,786	888,018
Minnesota	30,485	80,259	166,323	255,988	358,477	404,135	440,726	493,783	518,063
Mississippi	*	*	27,872	50,234	72,271	80,210	95,805	104,363	114,140
Missouri	16,482	51,733	110,026	191,658	266,493	264,917	323,270	353,331	400,808
Montana	*	*	*	*	22,856	29,278	35,625	45,442	54,056
Nebraska	*	37,168	73,306	111,903	142,555	155,796	177,074	200,600	218,335
Nevada	*	*	*	*	*	*	*	*	*
New Hampshire	*	*	*	95,612	129,024	165,188	176,033	188,212	201,873
New Jersey	*	*	454,750	690,620	862,834	1,015,944	1,107,751	1,205,182	1,312,433
New Mexico	0	*	*	38,004	56,369	68,143	78,035	89,003	100,157
New York	*	564,423	967,949	1,401,322	1,752,189	1,976,663	2,216,153	2,444,565	2,765,476
North Carolina	42,713	115,949	313,884	454,272	623,414	691,904	762,203	861,990	650,767
North Dakota	*	*	*	10,066	14,428	17,307	20,551	19,329	19,861
Northern Mariana Isl.						0	0	0	0
Ohio	*	213,606	363,675	508,458	709,145	804,712	961,119	1,064,948	1,115,618
Oklahoma	*	*	*	*	*	*	233,993	261,585	284,184
Oregon	*	*	*	197,794	262,513	301,586	335,847	375,351	407,195
Pennsylvania	38,340	131,119	300,840	482,471	724,101	885,925	962,149	1,074,912	1,164,080
Puerto Rico	0	0	0	*	*	*	*	*	*
Rhode Island	*	*	*	*	*	*	*	*	*
South Carolina	20,190	68,487	126,598	185,083	228,648	252,646	290,233	326,370	368,338
South Dakota	*	*	*	9,156	12,114	14,103	32,991	35,291	37,514
Tennessee	*	96,119	199,121	277,579	340,883	386,258	422,063	460,235	506,143
Texas	137,670	328,900	577,233	888,595	1,162,797	1,320,225	1,467,804	1,617,513	1,692,433
Utah	*	*	*	*	*	*	*	*	*
Vermont	*	*	*	*	*	*	*	*	*
Virgin Islands	0	0	0	0	0	0	0	0	0
Virginia	40,337	131,553	238,300	404,616	579,580	681,914	748,694	817,100	892,955
Washington	*	*	217,644	313,915	426,487	498,934	585,125	660,159	725,832
West Virginia	*	*	48,858	73,263	97,463	108,585	117,538	128,133	145,450
Wisconsin	*	*	189,585	287,519	371,106	408,512	446,840	*	542,881
Wyoming	0	*	*	*	*	*	*	*	*
Nationwide	2,284,491	5,184,141	9,172,895	13,684,225	18,592,636	21,357,400	23,936,536	26,469,242	28,513,500

\* Data withheld to maintain firm confidentiality. Some data for December 2005 have been revised.

**Table 13**  
**High-Speed Lines by Type of End User as of June 30, 2006**  
**(Over 200 kbps in at least one direction)**

<b>State</b>	<b>Residential</b>	<b>Business</b>	<b>Total</b>
Alabama	535,676	79,834	615,510
Alaska	105,832	19,173	125,005
American Samoa	*	*	*
Arizona	1,025,009	367,702	1,392,711
Arkansas	323,697	40,236	363,933
California	6,946,363	2,448,922	9,395,285
Colorado	856,592	309,261	1,165,853
Connecticut	789,449	234,604	1,024,053
Delaware	146,184	11,464	157,648
District of Columbia	127,478	72,743	200,221
Florida	3,509,415	899,012	4,408,427
Georgia	1,515,834	538,243	2,054,077
Guam	*	*	*
Hawaii	264,129	30,483	294,612
Idaho	172,389	30,132	202,521
Illinois	2,079,961	531,711	2,611,672
Indiana	929,520	262,232	1,191,752
Iowa	398,674	47,983	446,657
Kansas	500,784	95,195	595,979
Kentucky	525,812	103,726	629,538
Louisiana	592,939	137,264	730,203
Maine	228,820	19,620	248,440
Maryland	1,114,994	377,490	1,492,484
Massachusetts	1,410,212	401,633	1,811,845
Michigan	1,419,435	367,137	1,786,572
Minnesota	849,394	208,182	1,057,576
Mississippi	221,158	41,513	262,671
Missouri	878,902	137,830	1,016,732
Montana	123,076	16,870	139,946
Nebraska	301,678	53,335	355,013
Nevada	475,018	139,133	614,151
New Hampshire	285,558	17,399	302,957
New Jersey	1,911,298	743,376	2,654,674
New Mexico	221,770	28,669	250,439
New York	3,697,887	1,154,962	4,852,849
North Carolina	1,157,707	444,231	1,601,938
North Dakota	56,699	13,916	70,615
Northern Mariana Islands	*	*	*
Ohio	1,810,922	581,108	2,392,030
Oklahoma	519,028	50,370	569,398
Oregon	675,248	185,137	860,385
Pennsylvania	1,998,243	648,655	2,646,898
Puerto Rico	141,543	28,374	169,917
Rhode Island	211,844	64,297	276,141
South Carolina	572,812	73,074	645,886
South Dakota	68,257	15,018	83,275
Tennessee	811,277	342,155	1,153,432
Texas	3,578,670	792,985	4,371,655
Utah	330,678	140,459	471,137
Vermont	99,775	8,847	108,622
Virgin Islands	6,673	553	7,226
Virginia	1,353,756	433,603	1,787,359
Washington	1,191,186	384,189	1,575,375
West Virginia	229,283	16,314	245,597
Wisconsin	884,863	149,783	1,034,646
Wyoming	73,769	9,317	83,086
Nationwide	50,262,193	14,352,077	64,614,270

\* Data withheld to maintain firm confidentiality.

Table 14

## Percentage of Residential End-User Premises with Access to High-Speed Services as of June 30, 2006

State	xDSL Availability Where ILECs Offer Local Telephone Service	Cable Modem Availability Where Cable Systems Offer Cable TV Service
Alabama	78%	91%
Alaska	78%	*
American Samoa	*	0%
Arizona	67%	91%
Arkansas	66%	77%
California	86%	97%
Colorado	82%	96%
Connecticut	*	84%
Delaware	*	*
District of Columbia	*	*
Florida	88%	96%
Georgia	87%	89%
Guam	*	0%
Hawaii	*	*
Idaho	76%	83%
Illinois	78%	97%
Indiana	74%	94%
Iowa	83%	89%
Kansas	80%	86%
Kentucky	85%	91%
Louisiana	87%	87%
Maine	67%	89%
Maryland	75%	98%
Massachusetts	*	99%
Michigan	66%	92%
Minnesota	81%	91%
Mississippi	73%	79%
Missouri	72%	96%
Montana	76%	83%
Nebraska	86%	91%
Nevada	85%	*
New Hampshire	59%	83%
New Jersey	88%	100%
New Mexico	75%	79%
New York	78%	99%
North Carolina	83%	95%
North Dakota	86%	79%
Northern Mariana Isl.	*	0%
Ohio	81%	95%
Oklahoma	75%	88%
Oregon	81%	90%
Pennsylvania	82%	94%
Puerto Rico	*	*
Rhode Island	*	*
South Carolina	78%	84%
South Dakota	76%	58%
Tennessee	81%	95%
Texas	75%	95%
Utah	82%	*
Vermont	60%	*
Virgin Islands	*	0%
Virginia	66%	96%
Washington	80%	94%
West Virginia	68%	88%
Wisconsin	76%	96%
Wyoming	77%	*
Nationwide	79%	93%

\* Data withheld to maintain firm confidentiality.

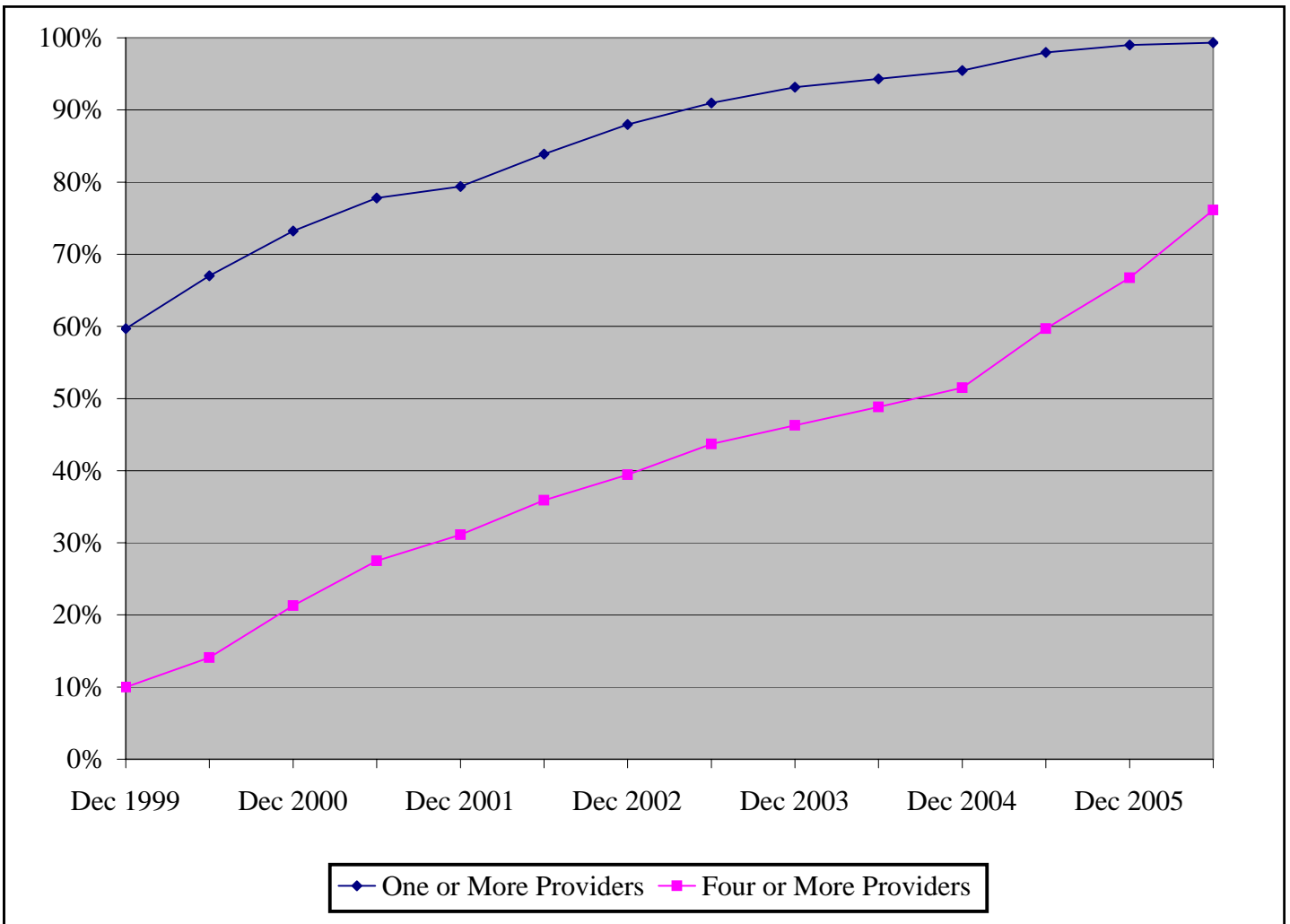
xDSL includes both asymmetric and symmetric DSL. Each state-specific estimate is a weighted average of the availability percentages that ILECs or cable system operators report for the areas they serve. Reported xDSL availability is weighted by ILEC end-user switched access lines. Reported cable modem 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
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 %
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
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
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
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
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
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
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
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
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
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

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**



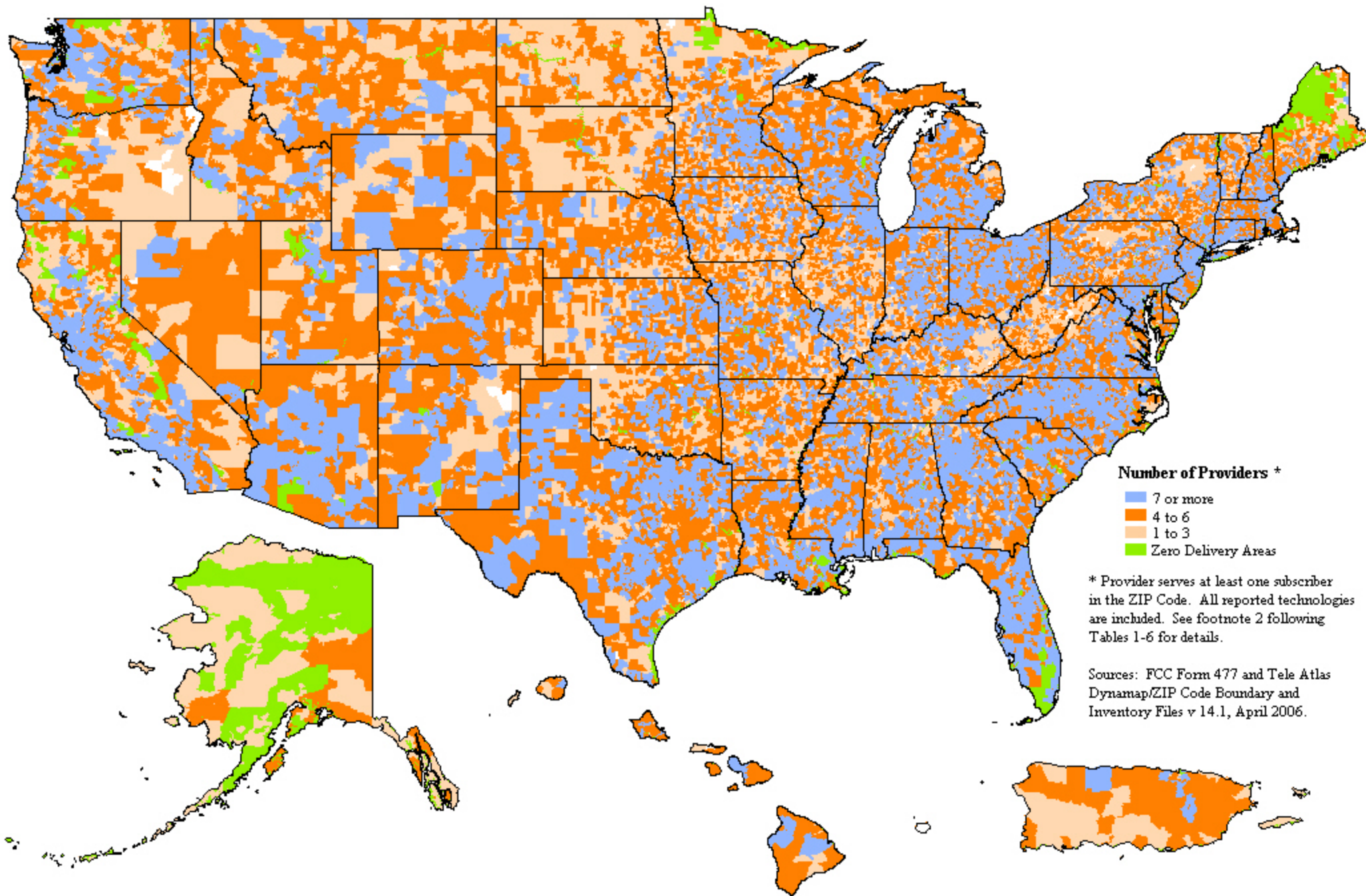
**Table 16**  
**Percentage of Zip Codes with High-Speed Lines in Service by Technology as of June 30, 2006**

Technology	Number of Providers										
	Zero	One	Two	Three	Four	Five	Six	Seven	Eight	Nine	Ten or More
ADSL	18.0	38.5	19.1	10.7	6.9	3.8	1.8	0.8	0.3	0.1	0.1
SDSL	61.0	16.8	7.3	4.8	3.6	2.7	1.9	1.1	0.5	0.1	0.1
Cable Modem	36.3	52.9	9.8	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Fiber	62.3	21.9	10.0	4.7	1.0	0.1	0.0	0.0	0.0	0.0	0.0
Satellite	10.4	40.3	30.6	18.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fixed Wireless	78.9	17.1	3.5	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Mobile Wireless	19.6	39.0	32.7	8.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0
Power Line and/or Other <sup>1</sup>	80.2	16.8	2.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ADSL and/or Cable Modem	12.1	24.8	21.9	15.1	10.6	7.3	4.4	2.3	1.0	0.4	0.2
All Technologies	0.7	3.7	8.2	11.3	12.9	12.2	10.4	8.7	7.1	5.8	19.1

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

<sup>1</sup> 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, 2006)



**Table 17**  
**Percentage of Zip Codes with High-Speed Lines in Service as of June 30, 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 %	7 %	9 %	11 %	13 %	12 %	10 %	8 %	7 %	21 %
Alaska	0	15	47	18	13	2	4	0	0	0	0
Arizona	0	0	1	6	10	12	5	6	9	6	45
Arkansas	0	5	13	20	18	16	10	5	3	4	6
California	0	2	6	9	9	7	6	6	7	7	43
Colorado	0	2	6	9	11	16	10	5	6	7	28
Connecticut	0	0	1	4	9	8	12	10	13	11	31
Delaware	0	0	7	3	17	16	14	29	9	2	3
District of Columbia	0	0	0	8	4	0	0	0	0	12	76
Florida	0	0	0	1	3	6	8	11	11	11	47
Georgia	0	1	5	9	11	11	13	8	6	5	32
Hawaii	2	7	8	8	17	19	23	12	4	0	0
Idaho	1	7	12	16	19	12	8	2	3	4	15
Illinois	1	5	12	16	13	10	7	6	6	4	21
Indiana	1	4	8	13	14	15	10	10	8	5	13
Iowa	1	9	15	17	16	11	10	7	3	4	6
Kansas	0	2	14	15	17	12	11	9	8	4	8
Kentucky	4	16	15	13	12	10	9	6	5	4	6
Louisiana	0	2	2	9	14	16	13	10	7	7	18
Maine	3	6	13	20	18	15	12	7	3	2	2
Maryland	0	2	5	8	13	14	7	10	6	4	31
Massachusetts	0	0	1	2	9	19	18	11	8	5	26
Michigan	0	1	3	8	14	16	12	11	9	5	21
Minnesota	2	10	12	11	14	10	9	6	5	2	18
Mississippi	0	1	6	10	16	17	11	7	8	7	16
Missouri	2	5	11	13	16	12	10	9	8	5	7
Montana	0	3	10	26	28	11	8	4	3	2	5
Nebraska	0	3	13	20	19	16	12	5	4	4	4
Nevada	1	1	5	8	11	10	14	5	9	8	29
New Hampshire	0	0	0	7	10	18	20	14	10	5	16
New Jersey	0	0	0	2	4	9	13	12	12	15	32
New Mexico	1	5	10	15	16	16	11	4	4	4	13
New York	1	3	8	12	13	12	10	8	8	6	21
North Carolina	0	1	2	5	11	14	15	16	9	7	21
North Dakota	0	4	33	30	19	8	2	1	0	2	1
Ohio	0	0	2	3	8	14	15	17	13	8	20
Oklahoma	1	5	11	17	18	13	9	10	7	5	3
Oregon	2	5	8	16	13	11	9	8	4	5	19
Pennsylvania	1	5	8	12	12	12	10	9	8	6	17
Puerto Rico	0	0	6	29	30	17	7	8	3	0	0
Rhode Island	0	1	4	5	9	16	7	12	8	9	27
South Carolina	0	1	4	6	12	12	14	12	9	15	15
South Dakota	0	6	26	25	16	11	8	3	1	2	3
Tennessee	1	3	7	10	14	10	12	8	7	6	23
Texas	0	2	4	7	10	12	12	13	10	8	24
Utah	0	4	10	14	15	11	7	4	4	3	30
Vermont	1	6	17	17	20	14	9	9	6	2	1
Virginia	1	2	6	10	14	12	12	10	9	7	18
Washington	0	3	7	9	12	10	9	7	4	6	32
West Virginia	3	14	20	16	15	13	7	5	3	2	1
Wisconsin	0	1	5	10	12	19	15	10	9	7	11
Wyoming	0	5	16	21	27	12	6	3	3	6	2
Nationwide	1 %	4 %	8 %	11 %	13 %	12 %	10 %	9 %	7 %	6 %	19 %

**Table 18**  
**High-Speed Subscribership**  
**Ranked by Population Density**

Persons per Square Mile <sup>1</sup>	Percentage of Zip Codes with at Least One High-Speed Subscriber							Percentage of Population that Resides in Zip Codes with High-Speed Service						
	Jun 2000	Jun 2001	Jun 2002	Jun 2003	Jun 2004	Jun 2005	Jun 2006	Jun 2000	Jun 2001	Jun 2002	Jun 2003	Jun 2004	Jun 2005	Jun 2006
More Than 3,147	97.3 %	98.1 %	98.7 %	98.9 %	98.9 %	99.3 %	99.4 %	99.7 %	99.9 %	99.8 %	100.0 %	99.9 %	100.0 %	99.9 %
947-3,147	95.8	97.1	98.2	98.2	98.5	99.0	99.5	99.4	99.8	99.9	99.9	99.9	99.9	99.9
268-947	93.4	95.6	97.5	98.4	98.5	99.2	99.4	98.4	99.5	99.9	99.9	99.9	100.0	100.0
118-268	86.7	92.3	95.2	96.9	97.7	98.8	99.2	95.9	98.8	99.5	99.7	99.8	99.9	99.8
67-118	77.9	87.5	93.0	96.4	97.6	98.6	98.8	90.2	96.8	98.5	99.4	99.6	99.8	99.8
41-67	65.4	80.9	88.0	93.8	96.4	98.2	98.9	81.2	93.0	96.3	98.5	99.1	99.4	99.5
25-41	54.5	72.8	81.0	90.4	94.3	97.6	98.4	71.4	87.3	92.2	96.9	98.2	99.2	99.4
15-25	39.2	58.9	70.0	83.3	88.5	95.7	97.1	59.9	78.4	86.5	93.3	95.6	98.6	98.9
6-15	31.3	51.1	60.9	77.3	83.5	93.7	96.5	56.6	74.6	81.9	90.3	93.8	97.7	98.5
Fewer Than 6	23.0	36.8	49.6	68.5	73.4	84.3	89.3	43.9	60.7	72.6	85.7	91.1	95.1	96.6

**Table 19**  
**High-Speed Subscribership**  
**Ranked by Household Income**

Median Household Income <sup>1</sup>	Percentage of Zip Codes with at Least One High-Speed Subscriber							Percentage of Population that Resides in Zip Codes with High-Speed Service						
	Jun 2000	Jun 2001	Jun 2002	Jun 2003	Jun 2004	Jun 2005	Jun 2006	Jun 2000	Jun 2001	Jun 2002	Jun 2003	Jun 2004	Jun 2005	Jun 2006
\$53,494 to \$291,938	94.9 %	96.4 %	97.9 %	98.5 %	98.7 %	99.0 %	99.3 %	99.5 %	99.8 %	99.9 %	99.9 %	99.8 %	99.8 %	99.8 %
\$43,617 to \$53,478	85.0	90.7	93.5	96.2	97.2	98.4	98.9	98.1	99.3	99.7	99.8	99.9	99.9	99.9
\$38,396 to \$43,614	74.1	83.8	89.0	94.0	95.9	98.1	98.9	96.4	98.5	99.0	99.6	99.8	99.9	99.9
\$34,744 to \$38,395	68.1	80.0	85.0	91.5	94.2	97.4	98.6	94.8	97.9	98.7	99.3	99.7	99.8	99.8
\$32,122 to \$34,743	64.3	77.3	83.3	90.2	93.0	97.2	98.4	93.5	97.4	98.4	99.2	99.5	99.8	99.9
\$29,893 to \$32,121	61.3	73.4	80.4	89.9	92.5	97.1	98.3	92.2	96.3	97.7	99.1	99.3	99.7	99.8
\$27,542 to \$29,892	58.7	73.5	79.7	89.2	92.5	96.7	97.9	90.5	95.9	97.5	98.9	99.3	99.7	99.7
\$24,855 to \$27,541	56.8	69.6	77.2	87.1	90.9	96.3	97.8	89.8	95.2	97.0	98.5	99.0	99.6	99.6
\$21,645 to \$24,855	53.3	67.4	76.9	87.4	91.2	95.9	97.8	87.5	93.9	96.5	98.5	99.1	99.6	99.7
\$0 to \$21,644	47.9	59.1	69.2	78.3	81.3	88.3	90.6	88.7	94.1	96.3	98.1	98.8	99.3	99.5

<sup>1</sup> 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 June 30, 2006*

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
- FCC employee
- other federal government employee
- state or local government employee
- Other (please specify)

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

- |                      |                              |                              |                              |                              |                              |
|----------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Data accuracy        | ( <input type="checkbox"/> ) | ( <input type="checkbox"/> ) | ( <input type="checkbox"/> ) | ( <input type="checkbox"/> ) | ( <input type="checkbox"/> ) |
| Data presentation    | ( <input type="checkbox"/> ) | ( <input type="checkbox"/> ) | ( <input type="checkbox"/> ) | ( <input type="checkbox"/> ) | ( <input type="checkbox"/> ) |
| Timeliness of data   | ( <input type="checkbox"/> ) | ( <input type="checkbox"/> ) | ( <input type="checkbox"/> ) | ( <input type="checkbox"/> ) | ( <input type="checkbox"/> ) |
| Completeness of data | ( <input type="checkbox"/> ) | ( <input type="checkbox"/> ) | ( <input type="checkbox"/> ) | ( <input type="checkbox"/> ) | ( <input type="checkbox"/> ) |
| Text clarity         | ( <input type="checkbox"/> ) | ( <input type="checkbox"/> ) | ( <input type="checkbox"/> ) | ( <input type="checkbox"/> ) | ( <input type="checkbox"/> ) |
| Completeness of text | ( <input type="checkbox"/> ) | ( <input type="checkbox"/> ) | ( <input type="checkbox"/> ) | ( <input type="checkbox"/> ) | ( <input type="checkbox"/> ) |

3. Overall, how do you rate this report?      Excellent      Good      Satisfactory      Poor      No opinion

- |  |                              |                              |                              |                              |                              |
|--|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
|  | ( <input type="checkbox"/> ) | ( <input type="checkbox"/> ) | ( <input type="checkbox"/> ) | ( <input type="checkbox"/> ) | ( <input type="checkbox"/> ) |
|--|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|

4. How can this report be improved?

5. May we contact you to discuss possible improvements?

Name:

Telephone #:

To discuss the information in this report, contact: 202-418-0940 or for users of TTY equipment, call 202-418-0484		
Fax this response to	or	Mail this response to
202-418-0520		FCC/WCB/IATD Mail Stop 1600 F Washington, DC 20554