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FEDERAL COMMUNICATIONS COMMISSION RELEASES DATA ON HIGH-SPEED SERVICES FOR INTERNET ACCESS

High-Speed Connections to the Internet Increased 34% During 2004 for a Total of 38 Million Lines in Service

Washington, D.C. – The Federal Communications Commission (FCC) today released new data on high-speed connections to the Internet in the United States. Twice a year, facilities-based broadband providers must report the number of high-speed connections in service pursuant to the FCC's local competition and broadband data gathering program (FCC Form 477).

For reporting purposes, *high-speed lines* are connections that deliver services at speeds exceeding 200 kilobits per second (kbps) in at least one direction, while *advanced services lines* are connections that deliver services at speeds exceeding 200 kbps in both directions.

For the purposes of this report we collected data from providers with at least 250 high-speed lines in a state. Statistics released today reflect data as of December 31, 2004 filed by providers on FCC Form 477 in the Commission's local competition and broadband data gathering program.

1) High-Speed Lines

- During the year 2004, high-speed lines serving residential, small business, larger business, and other subscribers increased by 34%, to 37.9 million lines. The increase was 17% during the second half of 2004, from 32.5 million to 37.9 million lines, compared to a 15% increase, from 28.2 million to 32.5 million lines, during the first half of the year.
- High-speed lines serving residential and small business subscribers increased by 36% during 2004, to 35.3 million lines. The increase was 17% during the second half of the year, from 30.1 million to 35.3 million lines, compared to a 16% increase, from 26.0 million to 30.1 million lines, during the first six months.
- During the year 2004, asymmetric digital subscriber line (ADSL) high-speed lines increased by 45%, to 13.8 million lines. They increased by 21% during the second half of 2004, from 11.4 million to 13.8 million lines, compared to a 20% increase, from 9.5 million to 11.4 million lines, during the preceding six months.

- High-speed coaxial cable connections (cable modem service) increased by 30% during 2004, to 21.4 million lines. They increased by 15% during the last six months of 2004, from 18.6 million to 21.4 million lines, compared to a 13% increase in the first half of the year, from 16.4 million to 18.6 million lines.
- The remaining 2.7 million high-speed connections in service at the end of 2004 were satellite or terrestrial wireless connections, fiber or powerline connections, or wireline connections other than ADSL. During 2004, satellite or terrestrial wireless connections increased by 50%, to 0.5 million, and fiber or powerline connections increased by 16%, to 0.7 million.

2) Advanced Services Lines

- Advanced services lines of all technology types increased by 42%, to 28.9 million lines, during the year 2004. They increased by 23% during the second half of 2004, from 23.5 million to 28.9 million lines, compared to a 15% increase during the first half of the year, from 20.3 million to 23.5 million lines.
- About 26.4 million of the 28.9 million advanced services lines served residential and small business subscribers.
- ADSL advanced services lines increased by 88% and cable modem advanced services lines increased by 36% during 2004. ADSL advanced services lines increased by 51% during the last six months of 2004, compared to a 19% increase for cable modem advanced services lines. During the first half of the year, ADSL advanced services lines increased by 24% and cable modem advanced services lines increased by 15%.

3) Geographic Coverage

- At the end of 2004, the service providers that report to the Commission had at least one high-speed service subscriber in 95% of the nation's zip codes. Our analysis indicates that 99% of the country's population lives in these zip codes.

The summary statistics released today also include state-by-state, population density, and household income information, ranked by zip codes. As additional information becomes available, it will be posted on the Commission's Internet site.

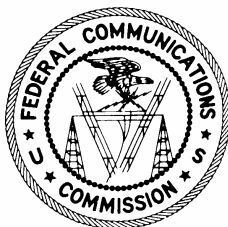
The report is available for reference in the FCC's Reference Information Center, Courtyard Level, 445 12th Street, SW, Washington, DC. Copies may be purchased by calling Best Copy and Printing, Inc. at (800) 378-3160. The report can also be downloaded from the **FCC-State Link** Internet site at www.fcc.gov/wcb/stats.

- FCC -

Wireline Competition Bureau contacts: James Eisner and Suzanne Mendez at (202) 418-0940, TTY (202) 418-0484.

High-Speed Services for Internet Access: Status as of December 31, 2004

Industry Analysis and Technology Division
Wireline Competition Bureau
July 2005



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. The report can also be downloaded from the **FCC-State Link** Internet site at www.fcc.gov/wcb/stats.

High-Speed Services for Internet Access: Status as of December 31, 2004

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 to gather standardized information about subscribership to high-speed services, including advanced services, from wireline telephone companies, cable television providers, terrestrial wireless providers, satellite providers, and any other facilities-based providers of advanced telecommunications capability.²

We summarize here information from the eleventh data collection, thereby presenting a snapshot of subscribership as of December 31, 2004.³ Subscribership to high-speed services for Internet access increased by 17% during the second half of 2004, to a total of 37.9 million lines in service. The presence of high-speed service subscribers was reported in all 50 states, the District of Columbia, Guam, Puerto Rico, and the Virgin Islands, and in 95% of the zip codes in the United States.

Before presenting the most recent information in some detail, we provide a brief description of the Commission's data collection program to enable the reader to better understand how the nationwide information presented here may compare to similar information derived from other sources. First, for purposes of this report, we required facilities-based providers of high-speed connections to end users in a given state to report to the Commission basic information about their service offerings and customers if the provider has at least 250 high-speed lines (or wireless channels) in service in that state.⁴ Although we encourage providers not meeting the reporting

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) (*Data Gathering Order*). During this data gathering program, qualifying providers 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). An updated FCC 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 We note that the Commission recently issued an Order that eliminated reporting thresholds. See *Local Telephone Competition and Broadband Reporting*, WC Docket No. 04-141, Report and Order, FCC 04-266 (rel. Nov. 12, 2004). Accordingly, beginning in September, 2005, data reported pursuant to Form 477 will not include thresholds. The reporting threshold of 250 high-speed lines (or wireless channels) is calculated based collectively on all commonly-owned and commonly-controlled affiliates operating in a given state, with a 10% equity interest as indicia of ownership. For reporting purposes, an entity is a facilities-based provider of high-speed service if it provides the service over its own "local loop" facilities connecting to end users, or over unbundled network elements (UNEs), special access lines, and other leased lines and wireless channels that it obtains from unaffiliated (continued...)

threshold to provide information on a voluntary basis, not all such providers have reported data.⁵ In particular, we do not know how comprehensively small providers, many of whom serve rural areas with relatively small populations, are represented in the data summarized here. Second, we do not allow the reporting of lines (or wireless channels) that are not “high-speed” (i.e., delivering transmissions to the subscriber at a speed in excess of 200 kbps in at least one direction). Some asymmetric digital subscriber line (ADSL) services and Integrated Services Digital Network (ISDN) services provided by telephone companies and some services that connect subscribers to the Internet over cable systems do not meet this “high-speed” criterion, but may nevertheless meet the needs of the subscribers who select them.

Based on the latest information now available, readers can draw the following broad conclusions:

- Subscribership to high-speed services increased by 17% during the second half of 2004, to a total of 37.9 million lines (or wireless channels) in service. The increase during the first half of 2004 was 15%. See Table 1.
- High-speed ADSL lines in service increased by 21% during the second half of 2004, to 13.8 million lines. High-speed connections over coaxial cable systems (cable modem service) increased by 15%, to 21.4 million lines.⁶ See Table 1.
- Reported high-speed connections to end users by means of satellite or terrestrial wireless technologies increased by 30% during the second half of 2004, and reported fiber optic and electric powerline connections to end-user premises increased by 9%. These technologies, together, accounted for about 1.2 million high-speed connections at the end of December 2004. See Table 1.

(Continued from previous page) _____

entities and equips to provide high-speed service. Non-facilities-based Internet Service Providers (ISPs), as such, have no reporting obligation. End-user lines equipped as high-speed service by, for example, an incumbent LEC must be reported by the incumbent LEC or an affiliate (assuming the LEC and its affiliates collectively have at least 250 such lines in service in a given state) irrespective of whether the end user of the retail high-speed Internet-access service is billed by the incumbent LEC, its ISP affiliate, another affiliate, or its billing agent, or by an unaffiliated ISP that has incorporated the incumbent LEC’s high-speed service into a premium Internet-access service marketed under the ISP’s own name.

⁵ High-speed lines reported in recent voluntary submissions represent less than 0.05% of total high-speed lines reported.

⁶ Providers are instructed to report a high-speed subscriber in the (mutually exclusive) technology category that characterizes the last few feet of distribution plant to the subscriber’s premises, e.g., coaxial cable in the case of the hybrid fiber-coax (HFC) architecture of upgraded cable systems. As noted above, ADSL services that do not deliver over 200 kbps in at least one direction are not included in the data reported here. Symmetric DSL services at speeds exceeding 200 kbps are included in the “other wireline” category because they are typically used to provide data services that are functionally equivalent to the T-1 and other data services that wireline telephone companies have offered to business customers for some time.

- Subscribership to the subset of high-speed services that are described as advanced services (i.e., delivering to subscribers transmission speeds in excess of 200 kbps in each direction) increased by 23% during the second half of 2004, to a total of 28.9 million lines (or wireless channels) in service. Advanced services lines provided by means of ADSL technology increased by 51%, and advanced services lines provided over coaxial cable systems increased by 19%.⁷ See Table 2.
- As of December 31, 2004, there were about 35.3 million high-speed lines serving residential and small business subscribers. By contrast, there were about 30.1 million such lines six months earlier, and about 26.0 million a year earlier. See Table 3.
- Of the 35.3 million high-speed lines in service to residential and small business subscribers at the end of December 2004, we estimate that about 26.4 million lines provide advanced services.⁸ See Table 4.
- Among entities that reported facilities-based ADSL high-speed lines in service as of December 31, 2004, about 96% of such lines were reported by incumbent local exchange carriers (ILECs). ILECs claimed a smaller share, about 62%, of high-speed lines delivered over other traditional wireline facilities.⁹ When all technologies are considered, ILECs provide about 38% of high-speed connections to end users. See Table 5.
- Providers of high-speed services over coaxial cable systems report serving subscribers in all 50 states, the District of Columbia, and Puerto Rico. Providers of high-speed ADSL services report serving subscribers in all 50 states, the District of Columbia, Guam, Puerto Rico, and the Virgin Islands, as do providers who use wireline technologies other than ADSL, or who use optical carrier (i.e., fiber) or electric powerline, satellite, or terrestrial wireless technologies in the last few feet to the subscriber's premises.¹⁰ See Table 6.

⁷ Providers also estimate the percentage of high-speed connections that are faster than 2 mbps in both directions. About 0.4 million such connections were reported as of December 31, 2004. About 21% of these connections were reported in the other traditional wireline category and about 60% were reported in the optical carrier category.

⁸ Filers of FCC Form 477 do not directly report the number of advanced services lines provided to residential and small business end users, as opposed to other end users. In estimating the number of advanced services lines serving residential and small business end users, we assume that reported advanced service lines were more likely to be delivered to large business users first and to residential and small business users second. *See also Second 706 Report*, 15 FCC Rcd 20943.

⁹ Symmetric forms of DSL services, which are typically purchased by business customers, are included in this category.

¹⁰ Information about providers of high-speed services other than ADSL and cable modem is reported in a single category, for the individual states, to honor requests for nondisclosure of information that reporting entities assert is competitively sensitive. In the *Data Gathering Order*, the Commission stated it would publish high-speed data only once it has been aggregated in a manner that does not reveal individual company data. *See Data Gathering Order*, 15 FCC Rcd 7760.

- The Commission’s data collection program gathers from providers information about the number of high-speed lines in service in individual states, in total and by technology deployed in the last few feet to the subscriber’s premises. Relatively large numbers of total high-speed lines in service are associated with the more populous states. As of December 31, 2004, the most populous state, California, had the largest reported number of high-speed lines. The second, third, and fourth largest numbers of high-speed lines were reported for New York, Florida, and Texas, which are the third, fourth, and second most populous states, respectively. See Table 7 and, for historical data, see Tables 8 - 10.
- Reporting entities estimate the percentage of their high-speed lines in service that connect to residential and small business end users (as opposed to connecting to medium and large business, institutional, or government end users).¹¹ These percentages allow us to derive approximate numbers of residential and small-business high-speed lines in service by state. See Table 11.
- The Commission’s data collection program also requires service providers to identify each zip code in which the provider has at least one high-speed service subscriber. As of December 31, 2004, subscribers to high-speed services were reported in 95% of the nation’s zip codes. In 83% of the nation’s zip codes more than one provider reported having subscribers.¹² See Table 12.
- Our analysis indicates that 99% of the country’s population lives in the 95% 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 12.
- States vary widely with respect to the percentage of zip codes in the state in which no high-speed lines are reported to be in service. See Table 13.

¹¹ Reporting entities are instructed to consider a high-speed line as being provided to a “residential and small business” end user if that end user has a high-speed connection of a type (*e.g.*, speed and price) that is normally associated with residential end users.

¹² Lists of zip codes with number of service providers as reported in the FCC Form 477 filings are made available at www.fcc.gov/wcb/stats in a format that honors requests for nondisclosure of information the reporting entities assert is competitively sensitive.

- 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, as of December 31, 2004, high-speed subscribers are reported to be present in 99% of the most densely populated zip codes and in 75% of zip codes with the lowest population densities.¹³ The comparable figure for the lowest-density zip codes was 74% a year earlier. See Table 14.
- 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 83% of zip codes with the lowest median household income, compared to 82% a year earlier. See Table 15.

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

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

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

¹³ 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 ¹
(Over 200 kbps in at Least One Direction)

Types of Technology ²	1999	2000		2001		2002		2003		2004		Percent Change	
	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Dec 2003 - Jun 2004	Jun 2004 - Dec 2004
ADSL	369,792	951,583	1,977,101	2,693,834	3,947,808	5,101,493	6,471,716	7,675,114	9,509,442	11,398,199	13,817,280	20 %	21 %
Other Wireline	609,909	758,594	1,021,291	1,088,066	1,078,597	1,186,680	1,216,208	1,215,713	1,305,070	1,407,121	1,468,566	8	4
Coaxial Cable	1,411,977	2,284,491	3,582,874	5,184,141	7,059,598	9,172,895	11,369,087	13,684,225	16,446,322	18,592,636	21,357,400	13	15
Fiber or Powerline	312,204	307,151	376,203	455,593	494,199	520,884	548,471	575,613	602,197	638,812	697,779	6	9
Satellite or Wireless	50,404	65,615	112,405	194,707	212,610	220,588	276,067	309,006	367,118	421,690	549,621	15	30
Total Lines	2,754,286	4,367,434	7,069,874	9,616,341	12,792,812	16,202,540	19,881,549	23,459,671	28,230,149	32,458,458	37,890,646	15 %	17 %

See notes following Chart 8.

Chart 1
Total High-Speed Lines

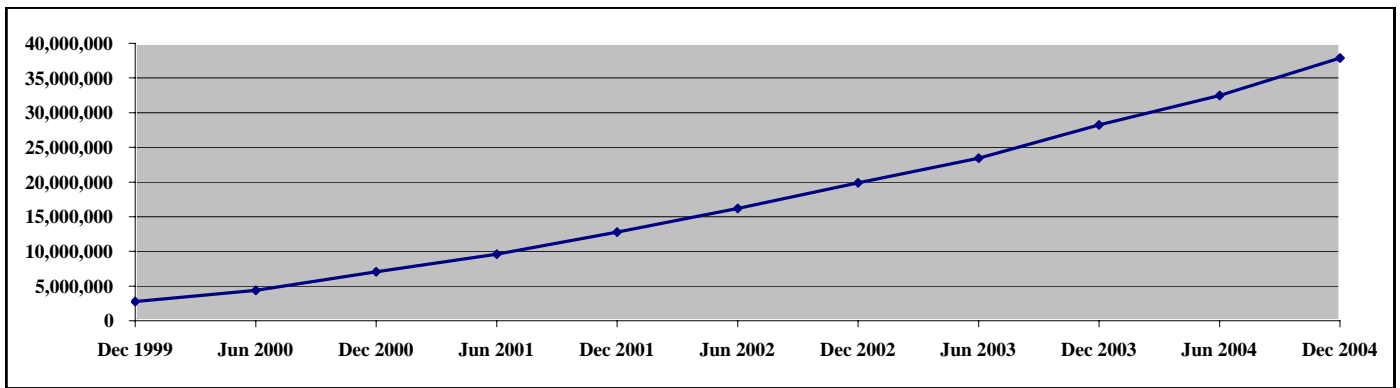


Chart 2
High-Speed Lines by Technology

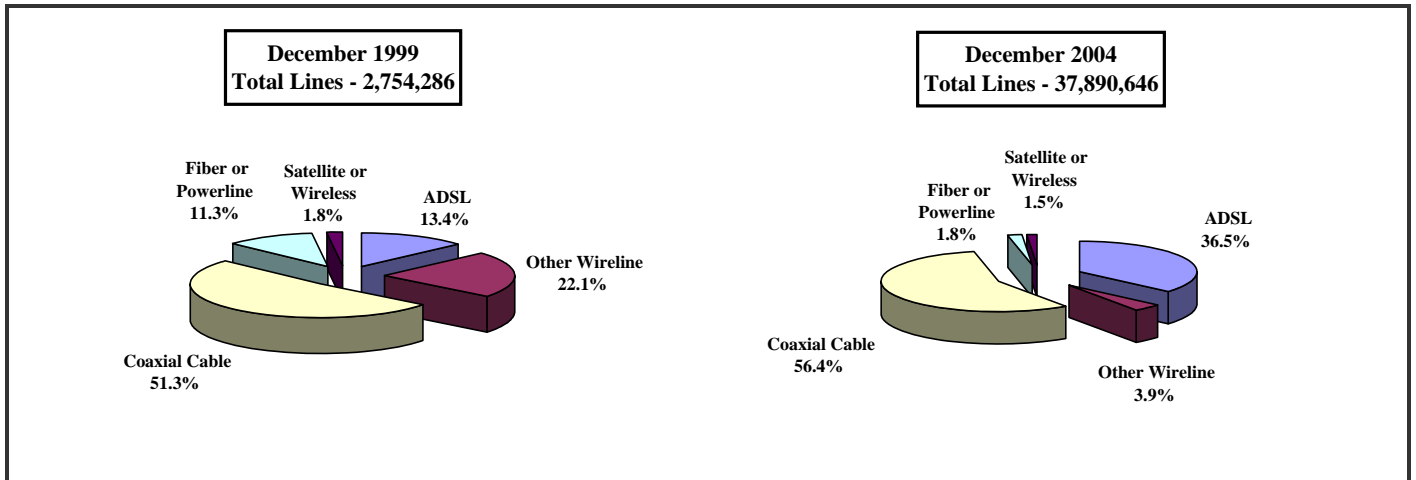


Table 2
Advanced Services Lines ¹
(Over 200 kbps in Both Directions)

Types of Technology ²	1999	2000		2001		2002		2003		2004		Percent Change	
	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Dec 2003 - Jun 2004	Jun 2004 - Dec 2004
ADSL	185,950	326,816	675,366	998,883	1,369,143	1,852,879	2,178,394	2,536,368	3,037,474	3,768,019	5,695,548	24 %	51 %
Other Wireline	609,909	758,594	1,021,291	1,088,066	1,078,597	1,186,680	1,216,208	1,215,713	1,305,070	1,407,121	1,468,566	8	4
Coaxial Cable	877,465	1,469,130	2,193,609	3,329,976	4,394,778	6,819,395	8,342,234	11,935,866	15,327,247	17,567,468	20,891,624	15	19
Fiber or Powerline	307,315	301,143	376,197	455,549	486,483	518,908	548,123	575,057	601,441	637,520	695,253	6	9
Satellite or Wireless	7,816	3,649	26,906	73,476	75,341	66,073	65,929	64,393	73,222	93,805	106,616	28	14
Total Lines	1,988,455	2,859,332	4,293,369	5,945,950	7,404,343	10,443,935	12,350,888	16,327,396	20,344,453	23,473,932	28,857,608	15 %	23 %

See notes following Chart 8.

Chart 3
Advanced Services Lines

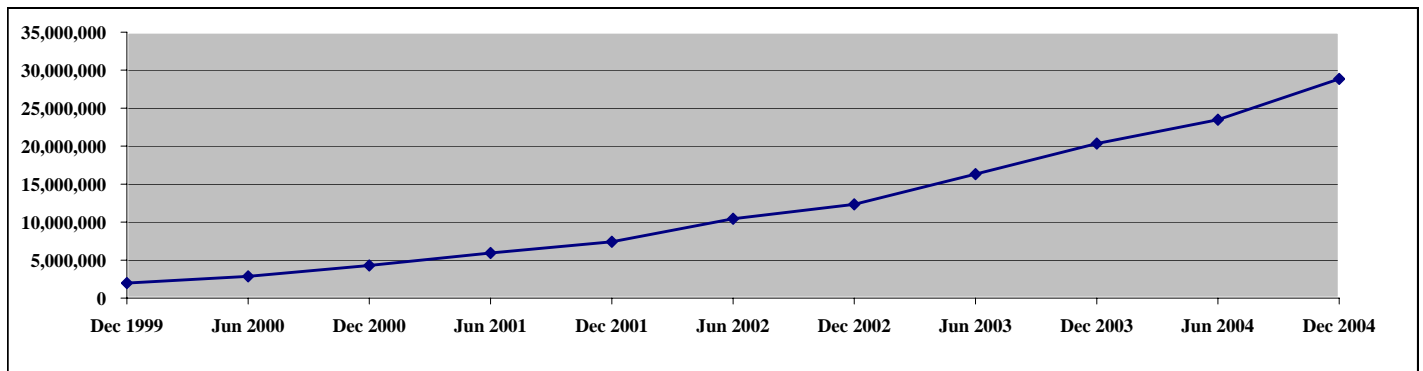


Chart 4
Advanced Services Lines by Technology

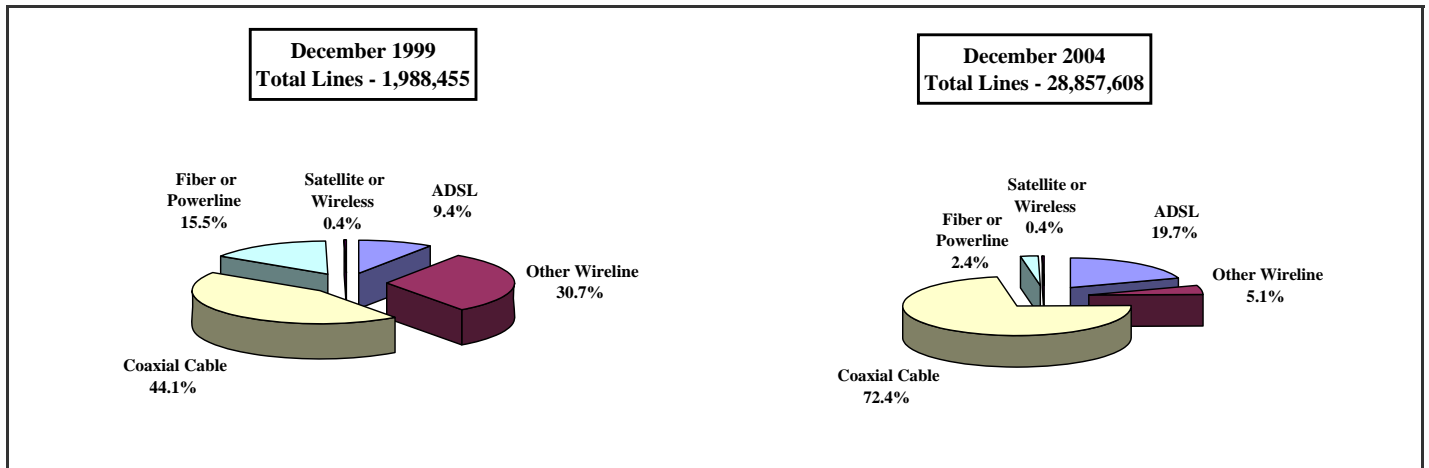


Table 3
Residential and Small Business High-Speed Lines ¹
(Over 200 kbps in at Least One Direction)

Types of Technology ²	1999	2000		2001		2002		2003		2004		Percent Change	
	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Dec 2003 - Jun 2004	Jun 2003 - Dec 2004
ADSL	291,757	772,272	1,594,879	2,490,740	3,615,989	4,395,033	5,529,241	6,429,938	8,909,027	10,759,495	13,119,326	21 %	22 %
Other Wireline	46,856	111,490	176,520	138,307	139,660	223,599	213,489	250,372	289,764	393,049	419,215	36	7
Coaxial Cable	1,402,394	2,215,259	3,294,546	4,998,540	7,050,709	9,157,285	11,342,512	13,660,541	16,416,364	18,525,265	21,270,158	13	15
Fiber or Powerline	1,023	325	1,994	2,623	4,139	6,120	14,692	16,132	19,830	22,719	34,959	15	54
Satellite or Wireless	50,189	64,320	102,432	182,165	194,897	202,251	256,978	288,786	341,864	387,563	422,623	13	9
Total Lines	1,792,219	3,163,666	5,170,371	7,812,375	11,005,396	13,984,287	17,356,912	20,645,769	25,976,850	30,088,091	35,266,281	16 %	17 %

See notes following Chart 8.

Chart 5
Residential and Small Business High-Speed Lines

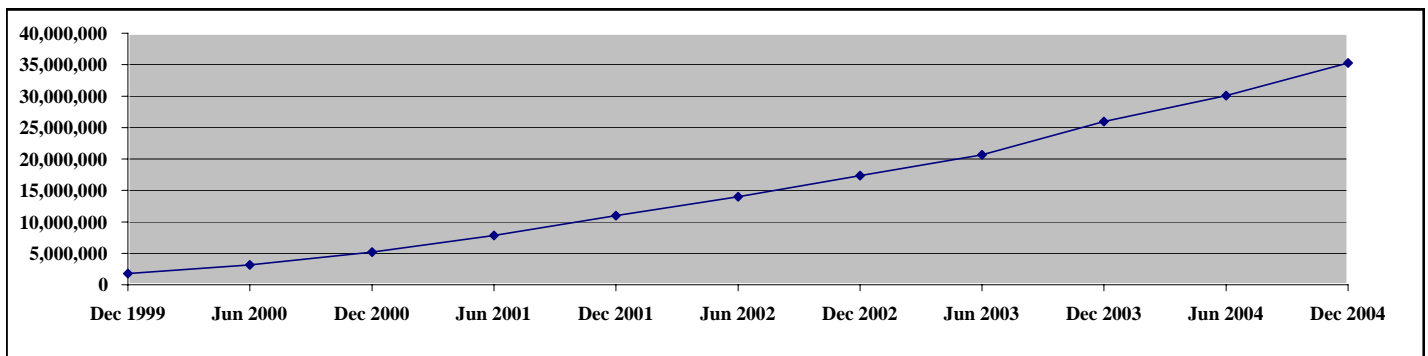


Chart 6
Residential and Small Business High-Speed Lines by Technology

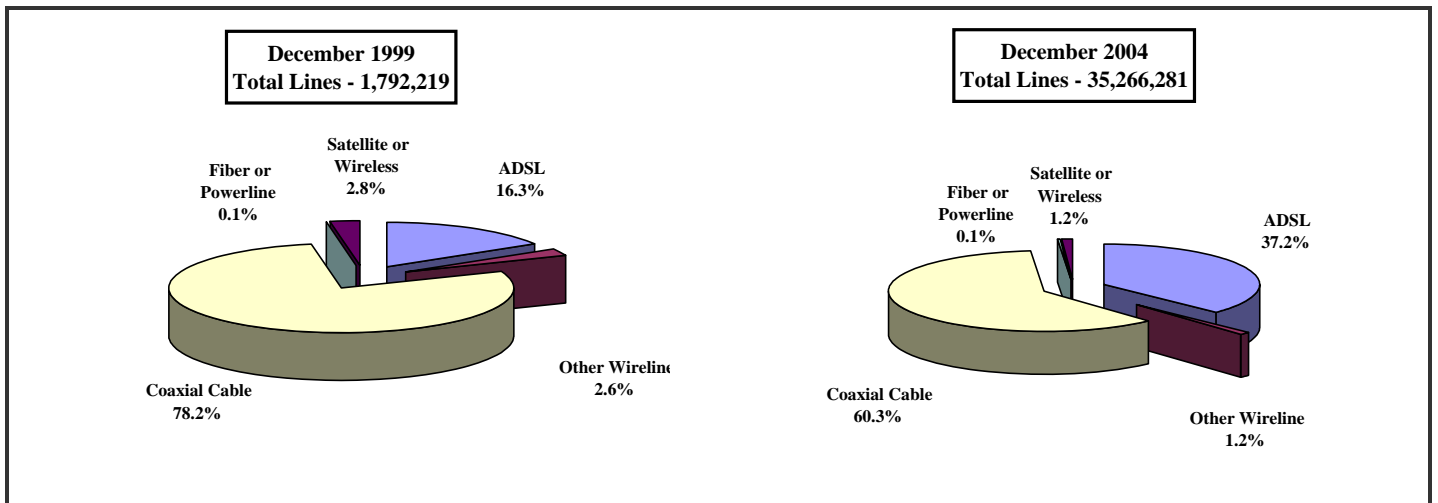


Table 4
Residential and Small Business Advanced Services Lines¹
(Over 200 kbps in Both Directions)

Types of Technology ²	1999	2000		2001		2002		2003		2004		Percent Change	
	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Dec 2003 - Jun 2004	Jun 2004 - Dec 2004
ADSL	116,994	195,324	393,246	916,364	1,243,996	1,580,575	1,827,547	2,071,779	2,437,059	3,174,022	5,026,367	30 %	58 %
Other Wireline	46,856	111,490	176,520	138,307	139,660	223,599	213,489	250,372	289,764	393,049	419,215	36	7
Coaxial Cable	872,024	1,401,434	2,177,328	3,146,953	4,388,967	6,809,170	8,322,157	11,920,207	15,297,289	17,505,907	20,811,704	14	19
Fiber or Powerline	138	325	1,992	2,617	3,523	5,118	14,408	15,751	19,074	21,866	33,189	15	52
Satellite or Wireless	7,682	2,916	17,043	60,988	58,113	47,787	47,903	46,407	51,944	72,485	84,465	40	17
Total Lines	1,043,694	1,711,488	2,766,130	4,265,229	5,834,258	8,666,249	10,425,505	14,304,515	18,095,131	21,167,329	26,374,940	17 %	25 %

See notes following Chart 8.

Chart 7
Residential and Small Business Advanced Services Lines

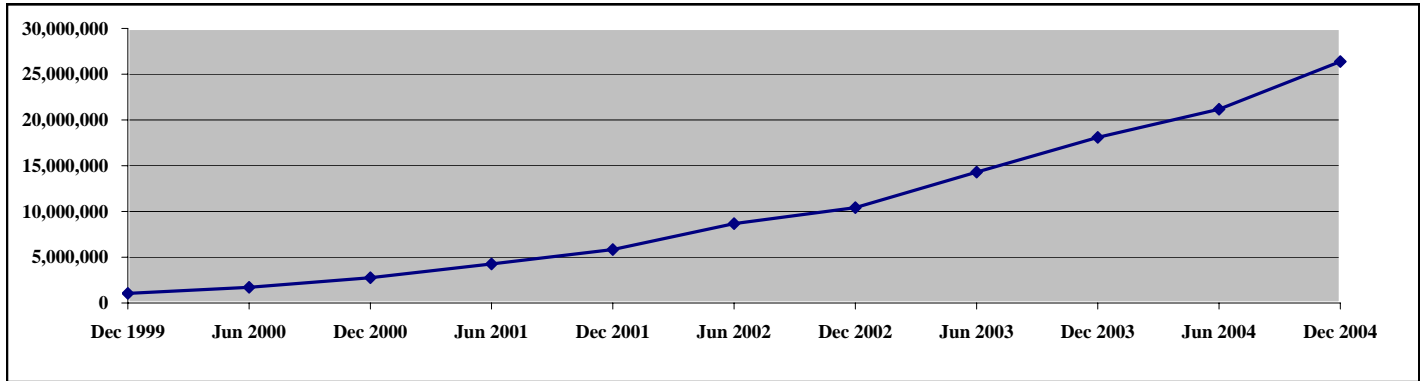
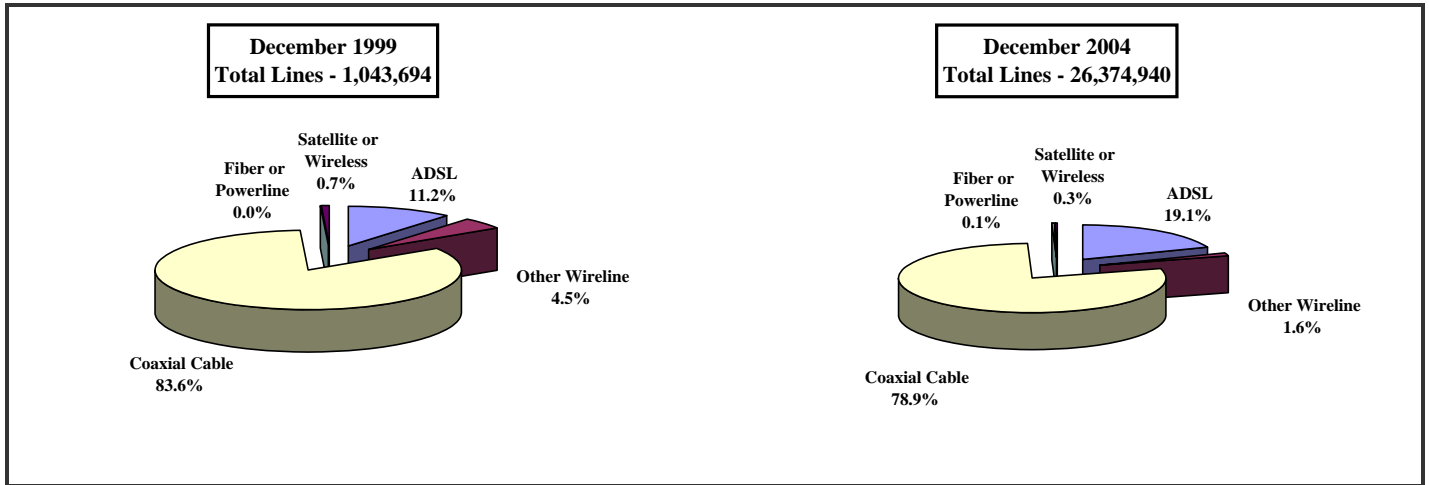


Chart 8
Residential and Small Business Advanced Services Lines by Technology



Notes for Tables 1 - 4 and Charts 1 - 8

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

¹ A high-speed line is a connection to an end-user customer that is faster than 200 kbps in at least one direction. Advanced services lines, which are a subset of high-speed lines, are connections to end-user customers that are faster than 200 kbps in both directions. The speed of the purchased service varies among end-user customers. For example, a high-speed service delivered to the end-user customer over other traditional wireline technology, such as DS1 or DS3 service, or over optical fiber to the end user's premises may be much faster than the ADSL or cable modem service purchased by a different, or by the same, end user. Numbers of lines reported here are not adjusted for the speed of the service delivered over the line or the number of end users able to utilize the lines.

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; wireline technologies "other" than ADSL, including traditional telephone company high-speed services and symmetric DSL services that provide equivalent functionality; coaxial cable, 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) and electric powerline; and satellite and terrestrial wireless systems, which use radio spectrum to communicate with a radio transmitter.

Table 5
High-Speed Lines by Type of Provider as of December 31, 2004
(Over 200 kbps in at Least One Direction)

Types of Technology ¹	Lines				Percent of Lines		
	RBOC ²	Other ILEC	Non-ILEC ³	Total	RBOC ²	Other ILEC	Non-ILEC ³
ADSL	11,489,276	1,730,927	597,077	13,817,280	83.2 %	12.5 %	4.3 %
Other Wireline	714,809	199,853	553,904	1,468,566	48.7	13.6	37.7
Coaxial Cable	*	*	21,319,224	21,357,400	*	*	99.8
Other	*	*	1,163,357	1,247,400	*	*	93.3
Total Lines	12,283,907	1,973,177	23,633,562	37,890,646	32.4 %	5.2 %	62.4 %

* Data withheld to maintain firm confidentiality.

¹ 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; wireline technologies "other" than ADSL, including traditional telephone company high-speed services and symmetric DSL services that provide equivalent functionality; coaxial cable, 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); and satellite and terrestrial wireless systems, which use radio spectrum to communicate with a radio transmitter.

² RBOC lines include all high-speed lines reported by BellSouth, SBC, and Verizon, and all high-speed lines reported by Qwest in states in which Qwest has ILEC operations.

³ 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.

Chart 9
Share of High-Speed Lines by Type of Provider

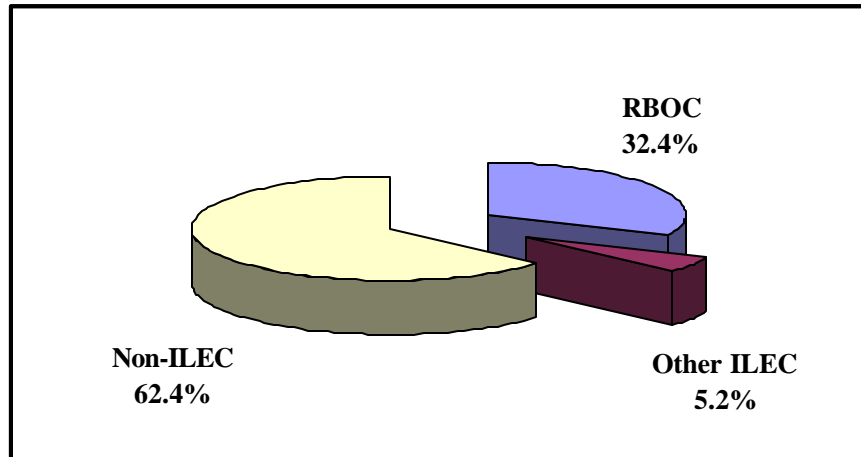


Table 6
Providers of High-Speed Lines by Technology as of December 31, 2004
(Over 200 kbps in at Least One Direction)

State	ADSL	Coaxial Cable	Other ¹	Total (Unduplicated)
Alabama	10	10	16	27
Alaska	5	*	7	8
American Samoa	0	0	0	0
Arizona	9	8	17	26
Arkansas	7	4	10	17
California	19	14	30	46
Colorado	9	5	16	22
Connecticut	6	6	12	18
Delaware	4	*	4	7
District of Columbia	5	*	8	10
Florida	14	10	28	39
Georgia	23	18	32	53
Guam	*	0	0	*
Hawaii	*	*	*	*
Idaho	8	*	12	17
Illinois	25	9	29	46
Indiana	18	10	23	35
Iowa	38	19	38	61
Kansas	19	16	25	41
Kentucky	12	10	13	30
Louisiana	11	6	15	22
Maine	7	4	7	15
Maryland	6	9	11	21
Massachusetts	7	7	14	21
Michigan	16	8	21	32
Minnesota	26	13	30	51
Mississippi	7	8	9	20
Missouri	15	12	21	37
Montana	12	4	11	20
Nebraska	16	9	18	29
Nevada	7	*	14	18
New Hampshire	6	5	10	17
New Jersey	7	5	13	18
New Mexico	9	5	10	16
New York	22	6	24	39
North Carolina	17	8	21	33
North Dakota	15	4	16	22
Ohio	16	14	28	38
Oklahoma	14	*	16	26
Oregon	18	5	19	29
Pennsylvania	21	13	23	41
Puerto Rico	*	*	*	5
Rhode Island	*	*	7	8
South Carolina	15	9	14	26
South Dakota	15	4	12	23
Tennessee	18	8	20	36
Texas	31	12	37	54
Utah	11	*	15	20
Vermont	6	*	8	11
Virgin Islands	*	0	*	*
Virginia	10	8	15	25
Washington	18	7	23	31
West Virginia	5	6	7	14
Wisconsin	31	6	21	40
Wyoming	4	*	7	8
Nationwide (Unduplicated) Dec 2004	352	147	312	552
Nationwide (Unduplicated) Jun 2004	298	129	281	485
Nationwide (Unduplicated) Dec 2003	274	110	246	432
Nationwide (Unduplicated) Jun 2003	235	98	217	378
Nationwide (Unduplicated) Dec 2002	178	87	169	299
Nationwide (Unduplicated) Jun 2002	142	68	138	237
Nationwide (Unduplicated) Dec 2001	117	59	122	203
Nationwide (Unduplicated) Jun 2001	86	47	98	160
Nationwide (Unduplicated) Dec 2000	68	39	87	136
Nationwide (Unduplicated) Jun 2000	47	36	75	116
Nationwide (Unduplicated) Dec 1999	28	43	65	105

* Data withheld to maintain firm confidentiality. In this table, an asterisk also indicates 1-3 providers reporting.

¹ Other includes wireline technologies other than asymmetric digital subscriber line (ADSL), optical fiber-to-the-subscriber's premises, satellite, and terrestrial wireless systems.

Table 7
High-Speed Lines by Technology as of December 31, 2004
(Over 200 kbps in at Least One Direction)

State	ADSL	Coaxial Cable	Other¹	Total
Alabama	135,282	233,004	41,768	410,054
Alaska	33,690	*	*	110,416
American Samoa	0	0	0	0
Arizona	136,260	549,613	65,009	750,882
Arkansas	100,987	106,055	13,282	220,324
California	2,700,380	2,213,138	469,331	5,382,849
Colorado	248,285	332,927	41,399	622,611
Connecticut	244,509	341,146	17,632	603,287
Delaware	16,490	*	*	92,889
District of Columbia	51,127	*	*	115,110
Florida	1,110,846	1,384,059	188,153	2,683,058
Georgia	636,170	468,027	124,913	1,229,110
Guam	*	0	0	*
Hawaii	*	*	*	*
Idaho	48,500	*	*	126,121
Illinois	707,771	691,214	135,668	1,534,653
Indiana	239,454	364,887	37,266	641,607
Iowa	88,707	163,293	14,794	266,794
Kansas	112,063	246,185	29,052	387,300
Kentucky	148,963	183,726	28,214	360,903
Louisiana	163,021	291,857	31,215	486,093
Maine	41,000	95,182	6,553	142,735
Maryland	249,379	501,144	45,587	796,110
Massachusetts	302,537	778,595	63,014	1,144,146
Michigan	299,861	733,511	63,858	1,097,230
Minnesota	188,181	404,135	59,618	651,934
Mississippi	71,993	80,210	16,768	168,971
Missouri	282,904	264,917	43,460	591,281
Montana	36,183	29,278	7,419	72,880
Nebraska	46,283	155,796	14,701	216,780
Nevada	93,145	*	*	343,945
New Hampshire	42,835	165,188	7,839	215,862
New Jersey	372,949	1,015,944	83,873	1,472,766
New Mexico	68,359	68,143	9,387	145,889
New York	641,321	1,976,663	190,569	2,808,553
North Carolina	340,520	691,904	88,187	1,120,611
North Dakota	23,874	17,307	6,776	47,957
Ohio	455,336	804,712	86,992	1,347,040
Oklahoma	158,490	*	*	391,781
Oregon	171,861	301,586	37,181	510,628
Pennsylvania	436,503	885,925	82,889	1,405,317
Puerto Rico	*	*	*	61,554
Rhode Island	*	*	4,851	165,362
South Carolina	128,042	252,646	35,156	415,844
South Dakota	18,357	14,103	7,826	40,286
Tennessee	193,879	386,258	50,171	630,308
Texas	1,104,776	1,320,225	172,538	2,597,539
Utah	113,033	*	*	238,205
Vermont	28,524	*	*	72,400
Virgin Islands	*	0	*	*
Virginia	254,355	681,914	61,992	998,261
Washington	338,321	498,934	52,113	889,368
West Virginia	39,566	108,585	7,246	155,397
Wisconsin	202,882	408,512	38,236	649,630
Wyoming	20,402	*	*	45,602
Nationwide	13,817,280	21,357,400	2,715,966	37,890,646

* Data withheld to maintain firm confidentiality.

¹ Other includes wireline technologies other than asymmetric digital subscriber line (ADSL), optical fiber-to-the subscriber's premises, satellite, and terrestrial wireless systems.

Table 8
High-Speed Lines by State
(Over 200 kbps in at Least One Direction)

State	1999	2000		2001		2002		2003		2004	
	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec
Alabama	19,796	32,756	63,334	86,234	138,979	172,365	227,888	283,946	352,215	350,691	410,054
Alaska	*	*	934	20,906	50,277	46,791	55,975	61,121	71,778	88,076	110,416
American Samoa	0	0	0	0	0	0	0	0	0	*	0
Arizona	58,825	111,678	153,500	158,122	251,709	308,621	370,939	445,179	536,465	623,242	750,882
Arkansas	8,155	15,539	28,968	40,803	66,537	84,235	100,280	128,311	158,197	188,433	220,324
California	547,179	910,006	1,386,625	1,705,814	2,041,276	2,598,491	3,035,756	3,456,681	4,165,658	4,693,189	5,382,849
Colorado	36,726	64,033	104,534	147,220	177,419	243,810	298,265	344,154	425,431	522,028	622,611
Connecticut	36,488	63,772	111,792	149,057	191,257	236,490	307,860	368,186	444,525	520,306	603,287
Delaware	1,558	3,660	7,492	12,771	26,601	36,619	51,100	55,030	69,010	75,593	92,889
District of Columbia	13,288	16,926	27,757	39,101	43,278	55,197	64,310	70,715	88,683	96,078	115,110
Florida	190,700	244,678	460,795	651,167	911,261	1,119,693	1,405,976	1,653,537	1,986,938	2,258,302	2,683,058
Georgia	75,870	130,292	203,855	302,598	420,206	512,135	654,833	768,060	927,398	1,061,819	1,229,110
Guam	0	0	0	0	0	0	0	0	0	*	*
Hawaii	*	*	*	*	*	*	*	*	*	*	*
Idaho	*	8,070	15,908	20,233	18,445	43,119	54,963	64,353	80,455	99,845	126,121
Illinois	77,672	166,933	242,239	350,241	422,706	553,442	734,171	871,469	1,088,770	1,305,091	1,534,653
Indiana	20,059	49,702	60,494	80,364	123,704	159,392	205,946	237,030	419,131	519,514	641,607
Iowa	19,258	49,159	58,199	72,583	82,024	102,932	121,053	162,257	191,464	229,811	266,794
Kansas	26,179	42,679	68,743	101,734	125,963	149,733	193,568	248,796	284,911	323,217	387,300
Kentucky	23,570	24,237	32,731	39,297	67,870	90,284	99,265	121,594	243,005	300,704	360,903
Louisiana	28,133	43,294	74,950	121,685	164,760	207,257	262,093	315,690	368,528	420,926	486,093
Maine	19,878	17,864	26,266	38,149	49,523	61,406	73,061	85,615	99,200	124,191	142,735
Maryland	52,749	71,005	124,465	181,021	260,634	316,666	391,397	469,826	578,004	668,259	796,110
Massachusetts	114,116	185,365	289,447	357,256	505,819	583,627	679,084	821,135	919,638	1,024,732	1,144,146
Michigan	81,223	135,318	198,230	395,583	433,858	538,416	640,766	736,755	848,837	955,242	1,097,230
Minnesota	38,268	65,272	117,283	148,012	199,856	273,907	335,562	400,370	485,839	567,365	651,934
Mississippi	*	6,514	12,305	21,517	35,586	57,595	80,922	96,111	116,495	139,960	168,971
Missouri	23,347	46,903	100,403	123,915	181,794	224,282	260,752	366,978	439,067	543,189	591,281
Montana	*	*	7,378	10,446	13,037	17,969	20,090	28,023	39,240	57,650	72,880
Nebraska	36,748	44,188	54,085	55,188	71,451	92,849	117,219	141,172	173,524	199,282	216,780
Nevada	23,514	40,582	59,879	78,535	109,850	138,042	159,179	209,732	247,442	291,291	343,945
New Hampshire	22,807	33,045	42,364	55,658	71,200	86,200	102,590	118,879	149,180	168,652	215,862
New Jersey	101,832	144,203	285,311	428,514	590,192	693,036	839,095	967,840	1,106,541	1,241,222	1,472,766
New Mexico	*	2,929	28,497	20,482	31,940	44,942	57,956	71,969	91,736	115,850	145,889
New York	186,504	342,743	603,487	893,032	1,199,159	1,460,894	1,725,296	1,997,340	2,262,804	2,464,342	2,808,553
North Carolina	57,881	81,998	136,703	205,616	357,906	461,736	594,039	681,304	842,130	966,404	1,120,611
North Dakota	*	2,437	4,227	6,277	6,082	14,164	20,024	25,474	31,571	39,274	47,957
Ohio	160,792	156,980	230,525	358,965	436,766	580,078	710,355	821,935	977,886	1,157,787	1,347,040
Oklahoma	96,730	163,703	95,138	92,947	114,931	151,213	196,556	234,823	286,510	335,686	391,781
Oregon	27,062	44,186	76,839	93,242	158,048	199,549	275,449	318,460	380,507	439,447	510,628
Pennsylvania	71,926	79,892	176,670	263,236	376,439	516,488	631,717	772,276	971,170	1,141,763	1,405,317
Puerto Rico	*	*	*	*	*	*	22,732	32,063	31,100	43,091	61,554
Rhode Island	*	20,628	30,919	49,215	64,293	72,553	89,821	105,610	122,255	143,250	165,362
South Carolina	25,229	32,824	63,914	96,839	135,165	175,088	222,980	262,868	310,906	354,877	415,844
South Dakota	*	3,516	2,839	5,448	9,585	12,555	18,060	22,016	28,557	34,026	40,286
Tennessee	66,307	87,317	122,391	152,510	237,401	294,573	369,370	414,713	471,341	535,899	630,308
Texas	152,518	276,087	522,538	646,839	840,665	1,050,511	1,349,628	1,610,935	1,924,664	2,246,862	2,597,539
Utah	11,635	19,612	35,970	55,103	72,977	93,928	121,744	135,007	162,905	198,346	238,205
Vermont	*	1,551	7,773	16,230	21,795	29,990	32,814	39,773	44,724	56,033	72,400
Virgin Islands	0	*	*	*	*	*	*	*	*	*	*
Virginia	51,305	72,436	139,915	212,808	292,772	360,722	463,455	567,513	716,839	833,302	998,261
Washington	71,930	118,723	195,628	227,066	335,667	422,348	485,063	577,378	672,247	775,027	889,368
West Virginia	*	1,835	6,498	16,697	32,848	58,209	78,980	90,173	100,937	127,283	155,397
Wisconsin	18,599	34,262	76,257	127,755	182,395	257,099	335,991	401,995	488,620	565,160	649,630
Wyoming	*	*	*	*	7,856	10,990	14,696	17,507	24,818	35,464	45,602
Nationwide	2,754,286	4,367,434	7,069,874	9,616,341	12,792,812	16,202,540	19,881,549	23,459,671	28,230,149	32,458,458	37,890,646

* Data withheld to maintain firm confidentiality.

Table 9
ADSL High-Speed Lines by State
(Over 200 kbps in at Least One Direction)

State	1999	2000		2001		2002		2003		2004	
	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec
Alabama	*	*	12,320	*	34,785	45,350	56,860	70,639	112,274	112,059	135,282
Alaska	0	0	0	*	7,975	11,337	14,295	14,013	17,184	20,686	33,690
American Samoa	0	0	0	0	0	0	0	0	0	0	0
Arizona	*	*	32,395	39,828	53,489	68,280	72,324	77,368	87,263	108,735	136,260
Arkansas	*	*	*	*	22,240	28,477	35,594	44,801	60,435	80,981	100,987
California	122,855	373,574	622,894	735,677	928,345	1,214,543	1,485,309	1,715,998	2,065,780	2,342,186	2,700,380
Colorado	*	*	42,810	52,617	70,615	100,197	113,040	126,189	155,137	201,523	248,285
Connecticut	*	*	22,348	30,142	41,261	61,093	100,722	124,742	167,439	204,034	244,509
Delaware	*	*	*	*	*	*	*	*	*	10,572	16,490
District of Columbia	*	*	*	16,313	*	28,723	35,466	39,471	44,440	44,231	51,127
Florida	*	37,806	115,133	170,702	306,015	391,188	521,623	644,621	786,275	928,402	1,110,846
Georgia	*	*	56,588	106,649	172,556	237,922	305,004	368,372	452,567	535,088	636,170
Guam	0	0	0	0	0	0	0	0	0	*	*
Hawaii	*	*	*	*	*	*	*	*	*	*	*
Idaho	*	*	*	*	13,643	16,108	17,930	19,382	24,503	35,166	48,500
Illinois	3,150	12,812	48,278	89,080	110,448	195,560	300,497	363,733	466,052	588,906	707,771
Indiana	*	*	6,442	2,375	22,385	36,685	63,463	85,968	129,341	179,942	239,454
Iowa	*	*	*	9,532	13,193	18,751	29,161	39,386	48,226	65,580	88,707
Kansas	0	*	14,281	*	23,564	28,713	39,315	50,839	68,044	88,246	112,063
Kentucky	5,690	*	16,327	20,256	43,191	55,454	55,254	75,316	94,126	119,709	148,963
Louisiana	*	*	22,788	37,444	58,019	73,120	86,359	100,919	116,047	136,406	163,021
Maine	0	*	*	6,877	*	*	8,432	11,052	17,785	31,577	41,000
Maryland	*	*	*	51,051	79,997	95,439	115,687	126,873	152,906	192,139	249,379
Massachusetts	*	15,802	53,700	82,699	125,630	147,139	181,426	207,344	230,333	253,576	302,537
Michigan	786	*	25,482	41,428	52,505	80,588	111,182	135,360	175,202	236,310	299,861
Minnesota	*	25,975	40,870	51,640	67,527	86,184	98,316	115,244	134,914	159,137	188,181
Mississippi	*	*	*	*	*	*	*	33,650	41,740	52,892	71,993
Missouri	*	*	38,759	53,250	68,186	84,642	114,861	138,046	182,119	233,916	282,904
Montana	*	*	1,760	2,842	4,272	7,108	6,549	13,119	19,417	28,238	36,183
Nebraska	*	*	*	9,293	13,637	11,547	16,117	18,285	25,599	35,180	46,283
Nevada	*	*	10,023	*	17,598	24,073	36,662	47,934	61,014	74,879	93,145
New Hampshire	*	*	3,339	5,651	9,618	11,781	14,630	17,823	23,555	31,843	42,835
New Jersey	*	*	59,332	102,430	151,829	172,472	197,615	211,540	251,754	301,789	372,949
New Mexico	*	*	*	7,578	*	18,224	22,607	26,948	36,546	51,375	68,359
New York	9,307	41,656	124,146	197,135	285,814	338,229	391,686	438,241	497,071	536,980	641,321
North Carolina	*	8,662	23,815	41,332	65,582	89,680	124,031	161,642	210,958	264,248	340,520
North Dakota	*	*	*	*	4,849	6,575	8,826	11,593	14,034	19,412	23,874
Ohio	*	33,603	55,046	87,567	112,527	151,612	205,140	243,689	303,969	369,386	455,336
Oklahoma	*	*	*	31,321	39,978	50,617	65,378	78,248	106,031	129,996	158,490
Oregon	*	19,989	31,644	25,877	57,899	68,747	82,555	95,654	117,253	142,483	171,861
Pennsylvania	7,377	18,313	60,083	89,595	136,829	162,258	200,501	230,322	284,870	346,720	436,503
Puerto Rico	0	0	0	*	*	*	*	*	*	*	*
Rhode Island	0	*	*	*	*	*	*	*	*	*	*
South Carolina	*	*	5,168	9,704	18,686	26,184	38,293	52,667	77,599	98,583	128,042
South Dakota	*	*	*	1,652	2,869	4,389	6,308	8,637	11,635	15,230	18,357
Tennessee	*	*	13,705	22,902	42,571	57,984	74,034	92,777	116,785	147,922	193,879
Texas	*	73,117	158,513	197,668	300,752	368,796	486,833	597,447	772,697	930,997	1,104,776
Utah	*	*	17,352	23,476	33,306	47,637	57,025	65,648	76,466	95,656	113,033
Vermont	0	*	*	*	*	9,409	12,062	15,072	18,646	22,519	28,524
Virgin Islands	0	0	0	*	*	*	*	*	*	*	*
Virginia	7,425	9,510	26,750	39,114	65,298	75,524	96,805	114,797	144,584	196,568	254,355
Washington	*	52,345	79,130	64,812	140,273	172,652	200,189	225,377	262,149	300,804	338,321
West Virginia	0	*	*	*	*	*	*	*	*	*	39,566
Wisconsin	*	1,063	8,623	17,800	28,233	42,052	64,521	84,100	120,236	159,167	202,882
Wyoming	*	*	*	*	*	*	*	5,503	8,467	13,510	20,402
Nationwide	369,792	951,583	1,977,101	2,693,834	3,947,808	5,101,493	6,471,716	7,675,114	9,509,442	11,398,199	13,817,280

* Data withheld to maintain firm confidentiality.

Table 10
Coaxial Cable High-Speed Lines by State
(Over 200 kbps in at Least One Direction)

State	1999	2000		2001		2002		2003		2004	
	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec
Alabama	8,415	17,164	36,432	47,325	83,933	104,990	144,259	181,338	207,397	206,208	233,004
Alaska	0	0	0	0	*	*	*	*	*	*	*
American Samoa	0	0	0	0	0	0	0	0	0	0	0
Arizona	*	*	*	*	151,916	194,431	251,373	319,272	396,960	457,869	549,613
Arkansas	*	*	*	*	*	*	*	*	86,441	95,528	106,055
California	221,472	297,415	476,544	609,174	786,789	1,013,503	1,179,204	1,395,435	1,706,217	1,929,080	2,213,138
Colorado	*	*	*	*	*	*	*	181,766	231,075	280,909	332,927
Connecticut	28,702	47,127	78,234	106,019	137,003	160,913	192,155	227,658	260,415	299,176	341,146
Delaware	*	*	*	*	*	*	*	*	*	*	*
District of Columbia	*	*	*	*	*	*	*	*	*	*	*
Florida	110,000	129,830	255,978	372,190	486,977	595,806	741,426	867,513	1,050,062	1,171,641	1,384,059
Georgia	18,114	48,947	75,474	109,922	156,142	183,886	243,142	289,922	361,127	407,038	468,027
Guam	0	0	0	0	0	0	0	0	0	0	0
Hawaii	*	*	*	*	0	*	*	*	*	*	*
Idaho	0	*	*	*	*	*	*	*	*	*	*
Illinois	*	83,737	126,490	144,872	204,202	242,394	316,169	383,069	494,110	589,025	691,214
Indiana	7,412	33,431	37,052	56,441	78,837	98,414	114,237	122,338	257,023	304,866	364,887
Iowa	14,027	42,081	48,008	59,253	63,788	77,592	83,994	111,748	131,073	151,299	163,293
Kansas	*	*	48,541	74,337	94,047	111,615	142,563	181,437	199,369	209,233	246,185
Kentucky	*	*	*	*	*	12,867	22,113	23,672	124,535	154,567	183,726
Louisiana	*	*	*	64,219	88,851	115,198	*	189,920	227,047	257,405	291,857
Maine	*	*	*	*	*	*	*	*	*	*	95,182
Maryland	*	42,412	65,668	97,466	143,174	181,864	241,264	306,442	385,408	433,754	501,144
Massachusetts	*	148,233	210,019	243,670	339,244	391,391	453,473	564,961	638,441	704,956	778,595
Michigan	51,111	94,586	130,296	301,842	329,697	402,642	472,405	543,336	611,131	656,263	733,511
Minnesota	14,346	30,485	64,215	80,259	113,900	166,323	212,126	255,988	317,853	358,477	404,135
Mississippi	*	*	*	*	12,998	27,872	40,276	50,234	61,163	72,271	80,210
Missouri	*	16,482	42,255	51,733	89,370	110,026	117,403	191,658	221,917	266,493	264,917
Montana	0	*	*	*	*	*	*	*	*	22,856	29,278
Nebraska	*	*	*	37,168	49,939	73,306	92,261	111,903	130,319	142,555	155,796
Nevada	*	*	*	*	*	*	*	*	*	*	*
New Hampshire	*	*	*	*	*	*	*	95,612	118,456	129,024	165,188
New Jersey	*	*	*	*	375,362	454,750	578,337	690,620	781,898	862,834	1,015,944
New Mexico	0	0	*	*	*	*	*	38,004	47,721	56,369	68,143
New York	110,382	*	377,521	564,423	780,473	967,949	1,185,233	1,401,322	1,597,556	1,752,189	1,976,663
North Carolina	24,200	42,713	73,092	115,949	239,107	313,884	406,024	454,272	559,276	623,414	691,904
North Dakota	0	*	*	*	*	*	*	10,066	13,030	14,428	17,307
Ohio	*	*	127,692	213,606	264,031	363,675	435,404	508,458	597,442	709,145	804,712
Oklahoma	*	*	*	*	*	*	*	*	*	*	*
Oregon	*	*	*	*	*	*	165,343	197,794	233,737	262,513	301,586
Pennsylvania	34,878	38,340	85,104	131,119	190,915	300,840	376,611	482,471	621,381	724,101	885,925
Puerto Rico	0	0	0	0	0	0	*	*	*	*	*
Rhode Island	*	*	*	*	*	*	*	*	*	*	*
South Carolina	15,176	20,190	44,812	68,487	96,559	126,598	159,944	185,083	209,889	228,648	252,646
South Dakota	0	*	*	*	*	*	7,916	9,156	11,042	12,114	14,103
Tennessee	*	*	77,760	96,119	158,120	199,121	252,596	277,579	308,630	340,883	386,258
Texas	76,520	137,670	227,070	328,900	427,324	577,233	740,469	888,595	1,019,623	1,162,797	1,320,225
Utah	*	*	*	*	*	*	*	*	*	*	*
Vermont	*	*	*	*	*	*	*	*	*	*	*
Virgin Islands	0	0	0	0	0	0	0	0	0	0	0
Virginia	23,140	40,337	78,585	131,553	182,591	238,300	320,154	404,616	517,924	579,580	681,914
Washington	*	*	*	*	*	217,644	246,627	313,915	367,321	426,487	498,934
West Virginia	*	*	*	*	*	48,858	65,542	73,263	78,018	97,463	108,585
Wisconsin	*	*	*	*	*	189,585	243,043	287,519	334,394	371,106	408,512
Wyoming	0	0	*	*	*	*	*	*	*	*	*
Nationwide	1,411,977	2,284,491	3,582,874	5,184,141	7,059,598	9,172,895	11,369,087	13,684,225	16,446,322	18,592,636	21,357,400

* Data withheld to maintain firm confidentiality.

Table 11
High-Speed Lines by Type of User as of December 31, 2004
(Over 200 kbps in at Least One Direction)

State	Residential and Small Business	Other ¹	Total
Alabama	359,864	50,190	410,054
Alaska	101,039	9,377	110,416
American Samoa	0	0	0
Arizona	698,728	52,154	750,882
Arkansas	211,329	8,995	220,324
California	4,971,879	410,970	5,382,849
Colorado	582,282	40,329	622,611
Connecticut	580,566	22,721	603,287
Delaware	90,180	2,709	92,889
District of Columbia	92,498	22,612	115,110
Florida	2,438,390	244,668	2,683,058
Georgia	1,043,387	185,723	1,229,110
Guam	*	*	*
Hawaii	*	*	*
Idaho	122,672	3,449	126,121
Illinois	1,409,019	125,634	1,534,653
Indiana	606,470	35,137	641,607
Iowa	256,744	10,050	266,794
Kansas	372,647	14,653	387,300
Kentucky	323,532	37,371	360,903
Louisiana	444,600	41,493	486,093
Maine	138,111	4,624	142,735
Maryland	758,628	37,482	796,110
Massachusetts	1,096,029	48,117	1,144,146
Michigan	1,040,825	56,405	1,097,230
Minnesota	620,226	31,708	651,934
Mississippi	149,737	19,234	168,971
Missouri	542,502	48,779	591,281
Montana	69,056	3,824	72,880
Nebraska	204,724	12,056	216,780
Nevada	316,593	27,352	343,945
New Hampshire	208,738	7,124	215,862
New Jersey	1,391,005	81,761	1,472,766
New Mexico	137,842	8,047	145,889
New York	2,622,854	185,699	2,808,553
North Carolina	1,025,309	95,302	1,120,611
North Dakota	46,899	1,058	47,957
Ohio	1,249,482	97,558	1,347,040
Oklahoma	374,533	17,248	391,781
Oregon	489,569	21,059	510,628
Pennsylvania	1,328,814	76,503	1,405,317
Puerto Rico	59,570	1,984	61,554
Rhode Island	160,718	4,644	165,362
South Carolina	378,228	37,616	415,844
South Dakota	38,852	1,434	40,286
Tennessee	569,448	60,860	630,308
Texas	2,442,465	155,074	2,597,539
Utah	225,889	12,316	238,205
Vermont	69,939	2,461	72,400
Virgin Islands	*	*	*
Virginia	948,732	49,529	998,261
Washington	848,165	41,203	889,368
West Virginia	151,163	4,234	155,397
Wisconsin	616,281	33,349	649,630
Wyoming	29,015	16,587	45,602
Nationwide	35,266,281	2,624,365	37,890,646

* Data withheld to maintain firm confidentiality.

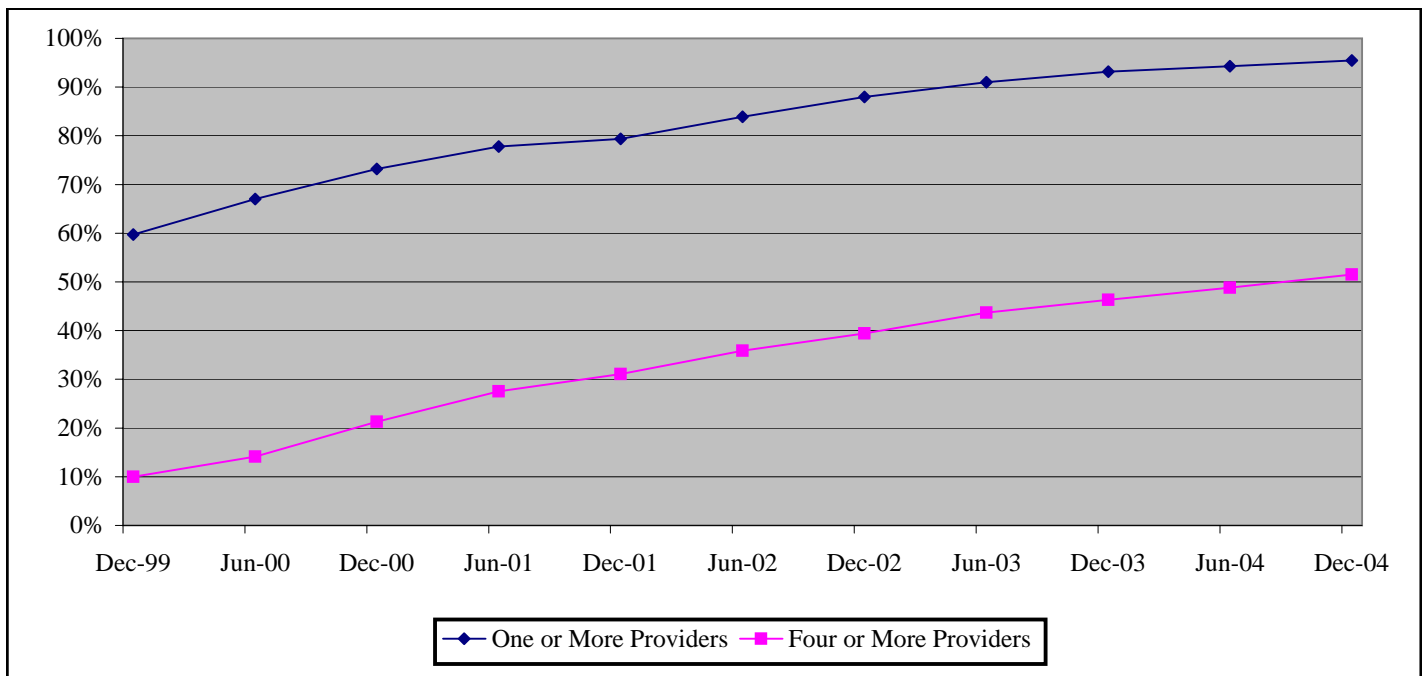
¹ Other includes medium and large business, institutional, and government customers.

Table 12
Percentage of Zip Codes with High-Speed Lines in Service

Number of Providers	1999	2000		2001		2002		2003		2004	
	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 %
One	26.0	25.9	22.7	20.3	19.3	18.4	17.3	16.4	14.9	13.8	12.5
Two	15.5	17.8	18.4	16.7	15.7	16.2	16.8	16.9	17.1	16.8	16.3
Three	8.2	9.2	10.9	13.2	13.1	13.3	14.4	14.0	14.9	14.9	15.1
Four	4.3	4.9	6.1	8.2	9.1	9.6	10.3	10.6	11.2	11.6	12.2
Five	2.7	3.4	4.0	4.9	6.1	6.9	7.3	7.7	7.8	8.4	8.9
Six	1.7	2.5	3.0	3.6	4.2	4.6	5.0	5.3	5.8	6.1	6.3
Seven	0.8	1.7	2.3	2.8	3.2	3.2	3.9	4.0	4.2	4.4	4.6
Eight	0.3	0.8	2.0	2.2	2.5	2.8	2.7	3.1	3.3	3.6	3.6
Nine	0.2	0.4	1.6	1.9	2.0	2.4	2.2	2.5	2.6	2.8	3.1
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

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

Chart 10
Percent of Zip Codes with High-Speed Providers



High-Speed Providers by ZIP Code

(As of December 31, 2004)

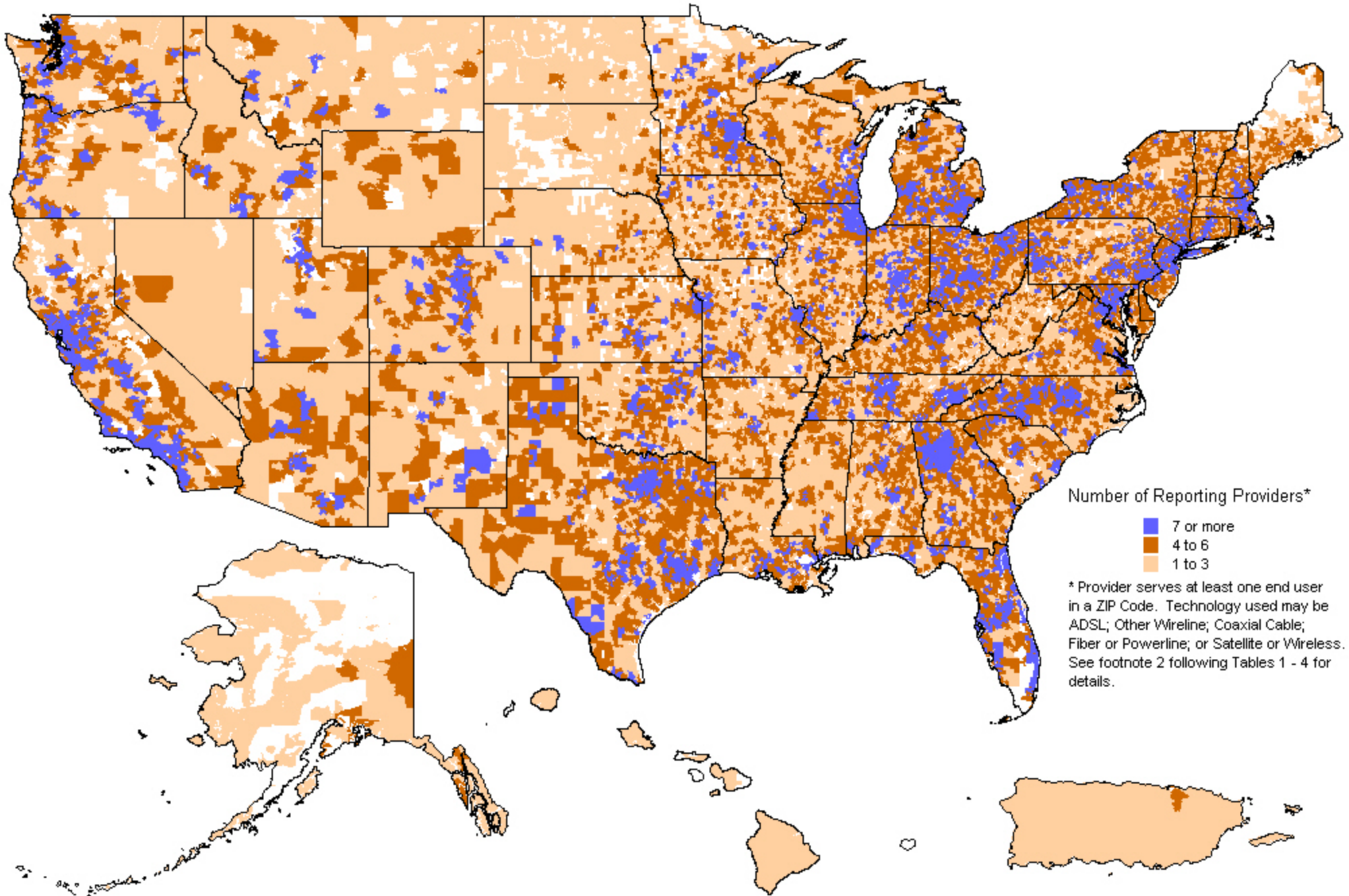


Table 13
Percentage of Zip Codes with High-Speed Lines in Service as of December 31, 2004
(Over 200 kbps in at Least One Direction)

	Number of Providers										
	Zero	One	Two	Three	Four	Five	Six	Seven	Eight	Nine	Ten or More
Alabama	7 %	13 %	15 %	18 %	17 %	9 %	5 %	5 %	4 %	3 %	5 %
Alaska	4	30	45	12	9	0	0	0	0	0	0
Arizona	1	4	17	14	9	5	7	4	5	4	29
Arkansas	10	23	27	17	11	5	4	2	2	0	0
California	1	5	10	11	9	4	4	4	4	5	42
Colorado	3	13	20	13	9	5	6	5	2	3	21
Connecticut	0	0	9	14	17	12	10	9	6	7	15
Delaware	2	0	5	16	48	16	14	0	0	0	0
District of Columbia	0	4	8	0	0	0	8	8	8	32	32
Florida	1	1	4	9	12	9	8	6	7	5	37
Georgia	1	5	11	16	15	13	8	7	3	2	19
Hawaii	10	10	32	48	0	0	0	0	0	0	0
Idaho	7	23	27	14	8	5	5	8	3	0	0
Illinois	3	13	17	16	12	7	5	4	2	3	17
Indiana	2	12	17	18	15	11	7	5	3	3	7
Iowa	14	24	21	15	10	8	4	3	1	0	0
Kansas	10	25	20	12	9	5	5	3	5	2	4
Kentucky	10	19	21	16	13	8	7	5	2	0	0
Louisiana	2	10	21	20	14	9	8	5	3	3	5
Maine	6	14	21	24	24	6	3	0	0	0	0
Maryland	1	7	12	12	12	11	7	4	4	5	25
Massachusetts	0	1	7	16	15	12	7	7	6	6	22
Michigan	1	5	11	16	14	15	9	6	5	3	14
Minnesota	10	16	16	14	11	8	4	3	2	2	13
Mississippi	3	17	25	25	10	7	8	4	1	1	0
Missouri	10	19	21	15	8	6	4	4	4	4	6
Montana	13	29	28	16	4	2	2	3	2	1	0
Nebraska	10	24	28	18	9	7	4	1	0	0	0
Nevada	2	20	16	8	8	4	16	11	2	5	8
New Hampshire	0	4	10	15	23	15	11	4	5	5	7
New Jersey	0	2	6	10	11	13	7	10	9	11	20
New Mexico	10	25	29	14	6	6	1	2	4	4	0
New York	0	4	9	13	16	14	9	6	5	4	19
North Carolina	1	4	14	19	18	13	8	5	4	2	12
North Dakota	15	49	29	3	2	2	0	0	0	0	0
Ohio	1	2	7	14	16	15	13	9	6	4	14
Oklahoma	6	19	20	14	10	8	6	7	7	2	1
Oregon	4	11	19	19	11	9	3	4	4	4	11
Pennsylvania	3	12	15	14	11	11	6	5	4	2	15
Puerto Rico	0	3	39	45	13	0	0	0	0	0	0
Rhode Island	1	4	9	12	19	19	19	16	0	0	0
South Carolina	3	14	18	15	11	15	11	8	5	1	0
South Dakota	22	32	25	12	5	3	1	0	0	0	0
Tennessee	3	8	17	16	13	11	7	7	4	3	11
Texas	2	8	12	12	13	12	9	6	5	3	19
Utah	7	14	22	12	9	2	5	3	2	3	23
Vermont	1	7	24	24	15	15	13	2	0	0	0
Virginia	3	16	14	20	14	8	5	3	3	4	10
Washington	2	10	17	16	10	5	6	4	5	5	20
West Virginia	12	34	24	12	10	4	3	1	0	0	0
Wisconsin	2	12	21	21	14	9	4	3	3	4	7
Wyoming	4	21	34	27	7	6	0	0	0	0	0
Nationwide	5 %	12 %	16 %	15 %	12 %	9 %	6 %	5 %	4 %	3 %	13 %

Table 14
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 2000	Dec 2001	Dec 2002	Dec 2003	Dec 2004
More Than 3,147	98.2 %	98.1 %	98.7 %	98.9 %	99.1 %	99.9 %	99.8 %	100.0 %	100.0 %	100.0 %
947-3,147	97.1	97.3	98.2	98.5	98.7	99.8	99.7	100.0	99.9	99.9
268-947	95.7	95.8	97.9	98.8	99.1	99.3	99.5	99.9	100.0	100.0
118-268	91.5	93.3	96.7	97.9	98.2	98.1	99.1	99.7	99.8	99.8
67-118	85.9	89.3	95.0	97.5	98.0	95.0	97.1	99.1	99.7	99.7
41-67	76.1	83.3	91.5	96.0	97.5	87.9	94.4	97.8	99.0	99.3
25-41	65.0	73.1	87.6	92.6	95.5	80.0	87.6	95.6	97.7	98.5
15-25	50.1	61.2	77.8	88.0	91.4	69.4	80.4	90.8	95.7	96.8
6-15	38.5	52.1	69.4	82.7	86.2	61.9	76.2	86.4	93.2	95.0
Fewer Than 6	27.5	43.3	59.7	73.5	74.8	49.9	67.9	80.9	88.9	91.8

Table 15
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 2000	Dec 2001	Dec 2002	Dec 2003	Dec 2004
\$53,494 to \$291,938	96.1 %	96.8 %	98.3 %	98.7 %	98.8 %	99.8 %	99.6 %	99.9 %	99.9 %	99.8 %
\$43,617 to \$53,478	88.9	91.7	95.3	97.4	97.6	99.0	99.3	99.8	99.9	99.9
\$38,396 to \$43,614	79.5	84.9	92.1	96.0	96.7	97.8	98.6	99.5	99.8	99.8
\$34,744 to \$38,395	74.5	79.9	88.2	94.0	95.0	96.6	97.6	99.1	99.6	99.7
\$32,122 to \$34,743	71.2	78.2	87.1	92.5	94.3	95.9	97.6	98.9	99.4	99.6
\$29,893 to \$32,121	67.4	75.5	85.6	91.8	93.8	94.5	96.8	98.5	99.3	99.4
\$27,542 to \$29,892	66.9	75.2	85.4	91.8	93.6	93.8	96.5	98.3	99.2	99.4
\$24,855 to \$27,541	65.1	71.8	83.2	89.8	92.6	93.1	95.6	98.1	98.9	99.2
\$21,645 to \$24,855	61.2	70.0	83.1	90.1	92.9	91.1	95.0	97.9	99.0	99.3
\$0 to \$21,644	54.9	62.7	74.5	81.9	83.3	91.5	95.1	97.5	98.6	99.0

¹ Persons per-square mile and median household income are in decile groups. Each groups contains 10% of the zip codes.

Customer Response

Publication: *High-Speed Services for Internet Access: Status as of December 31, 2004*

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