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

High-Speed Connections to the Internet Increased 20% During the Second Half of 2003 for a Total of 28 Million Lines in Service

Washington, D.C. – The Federal Communications Commission (FCC) today released summary statistics of its latest data on the deployment of high-speed connections to the Internet in the United States. Facilities-based providers file data with the FCC about the numbers of high-speed connections in service twice a year pursuant to the FCC's local competition and broadband data gathering program (FCC Form 477).

The FCC adopted the local competition and broadband data gathering program in March 2000 to assist the FCC in its efforts to monitor and further implement the pro-competitive, deregulatory provisions of the Telecommunications Act of 1996. The FCC uses data from this effort to evaluate the deployment of advanced telecommunications capability.

For reporting purposes, **high-speed lines** are defined as those that provide services at speeds exceeding 200 kilobits per second (kbps) in at least one direction, while **advanced services lines** are those that provide services at speeds exceeding 200 kbps in both directions. Reporting of state-level data is required for providers with at least 250 high-speed connections in service in a state. Statistics released today summarize FCC Form 477 filings due from qualifying providers on March 1, 2004, and reflect data as of December 31, 2003.

1) High-Speed Lines

- High-speed lines connecting homes and businesses to the Internet increased by 20% during the second half of 2003, from 23.5 million to 28.2 million lines, compared to a 18% increase, from 19.9 million to 23.5 million lines, during the first half of 2003. For the full twelve month period ending December 31, 2003, high-speed lines increased by 42%.
- Of the 28.2 million high-speed lines in service, 26.0 million served residential and small business subscribers, a 26% increase from the 20.6 million residential and small business high-speed lines reported six months earlier. For the full twelve month period ending December 31, 2003, high-speed lines for residential and small business subscribers increased by 50%.

2) Technology Type

- High-speed connections in service over asymmetric digital subscriber line (ADSL) technologies increased by 24% during the second half of 2003, from 7.7 million to 9.5 million lines, compared to a 19% increase, from 6.5 million to 7.7 million lines, during the preceding six months. For the full twelve month period ending December 31, 2003, high-speed ADSL increased by 47%.
- High-speed coaxial cable connections (cable modem service) increased by 20% during the last six months of 2003, from 13.7 million to 16.4 million lines, and also increased by 20% in the first half of 2003, from 11.4 million to 13.7 million lines. For the full twelve month period ending December 31, 2003, high-speed cable modem connections increased by 45%.
- The remaining 2.3 million high-speed connections in service are accounted for by satellite or wireless, wireline other than ADSL, and fiber high-speed connections.

3) Advanced Services Lines

- Of the 28.2 million high-speed lines, 20.3 million provided advanced services, i.e., services at speeds exceeding 200 kbps in both directions. Advanced services lines increased 25% during the second half of 2003, from 16.3 million to 20.3 million lines. For the full twelve month period ending December 31, 2003, advanced services lines of all technology types increased by 65%.
- About 18.1 million of the 20.3 million advanced services lines served residential and small business subscribers.
- Among *advanced services lines*, ADSL lines increased by 20% during the last six months of 2003, compared to a 28% increase for cable modem service. During the preceding six-month period, the rate of growth of ADSL (16%) was substantially lower than cable modem service (43%). For the full twelve month period ending December 31, 2003, advanced services lines – service lines provided in excess of 200 kbps in both directions – for ADSL increased by 39% and cable modem connections increased by 84%.

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 routinely posted on the Commission's Internet site.

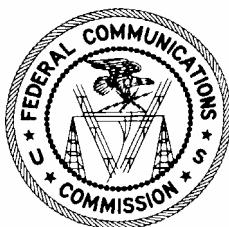
The report is available for reference in the FCC's Reference Information Center, Courtyard Level, 445 12th Street, SW, Washington, DC. Copies may be purchased by calling Best Copy and Printing, Inc. at (800) 378-3160. The report can also be downloaded from the **FCC-State Link** Internet site at www.fcc.gov/wcb/stats.

- FCC -

Wireline Competition Bureau contacts: Industry Analysis and Technology Division at (202) 418-0940, TTY (202) 418-0484.

High-Speed Services for Internet Access: Status as of December 31, 2003

Industry Analysis and Technology Division
Wireline Competition Bureau
June 2004



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, 2003

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 ninth data collection, thereby presenting a snapshot of subscribership as of December 31, 2003.³ Subscribership to high-speed services for Internet access increased by 20% during the second half of 2003, to a total of 28.2 million lines in service. The presence of high-speed service subscribers was reported in all 50 states, the District of Columbia, Puerto Rico, and the Virgin Islands, and in 93% of the zip codes in the United States.

Before presenting the most recent information in some detail, a brief description of the Commission's data collection program is in order to enable the reader to better understand how the nationwide information presented here may compare to similar information derived from other sources. First, a facilities-based provider of high-speed connections to end users in a given state reports to the Commission basic information about its service offerings and customers if the provider has at least 250 high-speed lines (or wireless channels) in service in that state.⁴ While

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. Previously, the Common Carrier Bureau collected information on a voluntary basis. See *Local Competition and Broadband Reporting*, CC Docket No. 99-301, Notice of Proposed Rulemaking, 14 FCC Rcd 18106 (1999).

³ Statistical summaries of the earlier Form 477 data collections appeared in *Deployment of Advanced Telecommunications Capability to All Americans in a Reasonable and Timely Fashion*, CC Docket No. 98-146, Second Report, 15 FCC Rcd 20913 (2000) (*Second 706 Report*), available at www.fcc.gov/broadband/706.html, and in previous releases of the *High-Speed Services for Internet Access* report, available at www.fcc.gov/wcb/stats.

⁴ The 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 entities and equips to provide high-speed service. Non-facilities-based Internet Service Providers (ISPs), as such, (continued....)

providers not meeting the reporting threshold may provide information on a voluntary basis, as some have done, it is likely that not all such providers have reported data.⁵ In particular, we do not know how comprehensively small providers, many of which serve rural areas with relatively small populations, are represented in the data summarized here. Second, 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) are not reported. 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 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 20% during the second half of 2003, to a total of 28.2 million lines (or wireless channels) in service. The increase during the first half of 2003 was 18%. See Table 1.
- High-speed ADSL lines in service increased by 24% during the second half of 2003, to 9.5 million lines. High-speed connections over coaxial cable systems (cable modem service) increased by 20%, to 16.4 million lines.⁶ See Table 1.
- Reported high-speed connections to end users by means of satellite or terrestrial wireless technologies increased by 19% during the second half of 2003, and reported fiber optic connections to end-user premises increased by 5%. These technologies, together, accounted for about 1.0 million high-speed connections at the end of December 2003. See Table 1.

(Continued from previous page) _____

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 25% during the second half of 2003, to a total of 20.3 million lines (or wireless channels) in service. Advanced services lines provided by means of ADSL technology increased by 20%, and advanced services lines provided over coaxial cable systems increased by 28%.⁷ See Table 2.
- As of December 31, 2003, there were about 26.0 million high-speed lines serving residential and small business subscribers. By contrast, there were about 20.6 million such lines six months earlier, and about 17.4 million a year earlier. See Table 3.
- Of the 26.0 million high-speed lines in service to residential and small business subscribers at the end of December 2003, we estimate that about 18.1 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, 2003, about 95% of such lines were reported by incumbent local exchange carriers (ILECs). ILECs claimed a smaller share, about 67%, of high-speed lines delivered over other traditional wireline facilities.⁹ When all technologies are considered, ILECs provided about 35% 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, Puerto Rico, and the Virgin Islands, as do providers who use wireline technologies other than ADSL, or who use optical carrier (i.e., fiber), 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, 2003. About 40% of these connections were reported in the other traditional wireline category and about 46% 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, 2003, the most populous state, California, has the largest reported number of high-speed lines. The second, third, and fourth largest numbers of high-speed lines are 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, 2003, subscribers to high-speed services were reported in 93% of the nation’s zip codes. In 78% 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 93% 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.
- 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, 2003, high-speed subscribers are reported to be present in 99% of the most densely populated zip codes and in 73% of zip codes with the lowest population densities.¹³ The comparable figure for the lowest-density zip codes was 60% a year earlier. See Table 14.

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.

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).

- 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 82% of zip codes with the lowest median household income, compared to 74% 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,
- Calling the Industry Analysis and Technology Division of the Wireline Competition Bureau at (202) 418-0940, or
- Participating in any formal proceedings undertaken by the Commission to solicit comments for improvement of FCC Form 477.

Table 1
High-Speed Lines ¹
(Over 200 kbps in at Least One Direction)

Types of Technology ²	1999	2000		2001		2002		2003		Percent Change	
	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Dec 2002 - Jun 2003	Jun 2003 - Dec 2003
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	19 %	24 %
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	0	7
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	20	20
Fiber	312,204	307,151	376,203	455,593	494,199	520,884	548,471	575,613	602,197	5	5
Satellite or Wireless	50,404	65,615	112,405	194,707	212,610	220,588	276,067	309,006	367,118	12	19
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	18 %	20 %

See notes following Chart 8.

Chart 1
Total High-Speed Lines

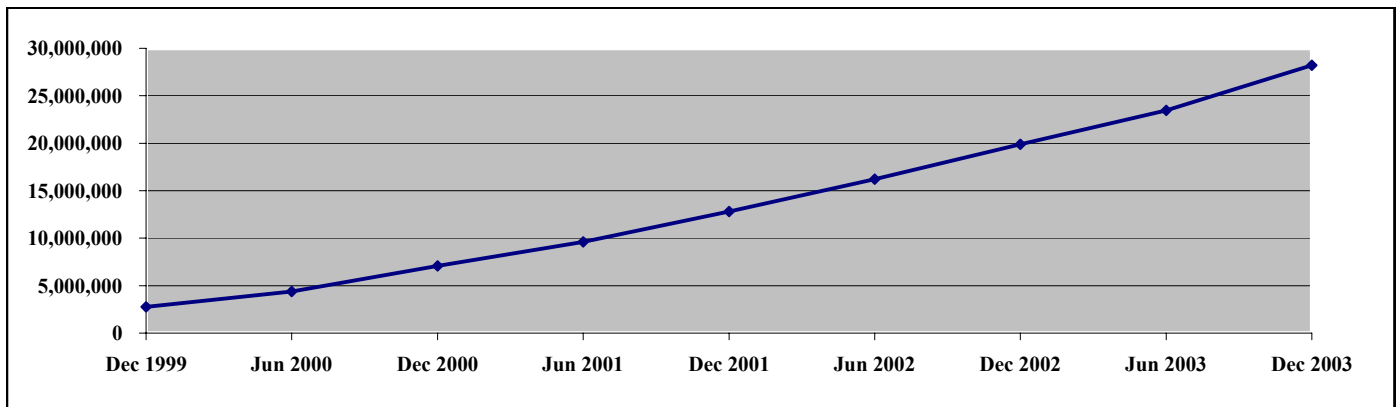


Chart 2
High-Speed Lines by Technology

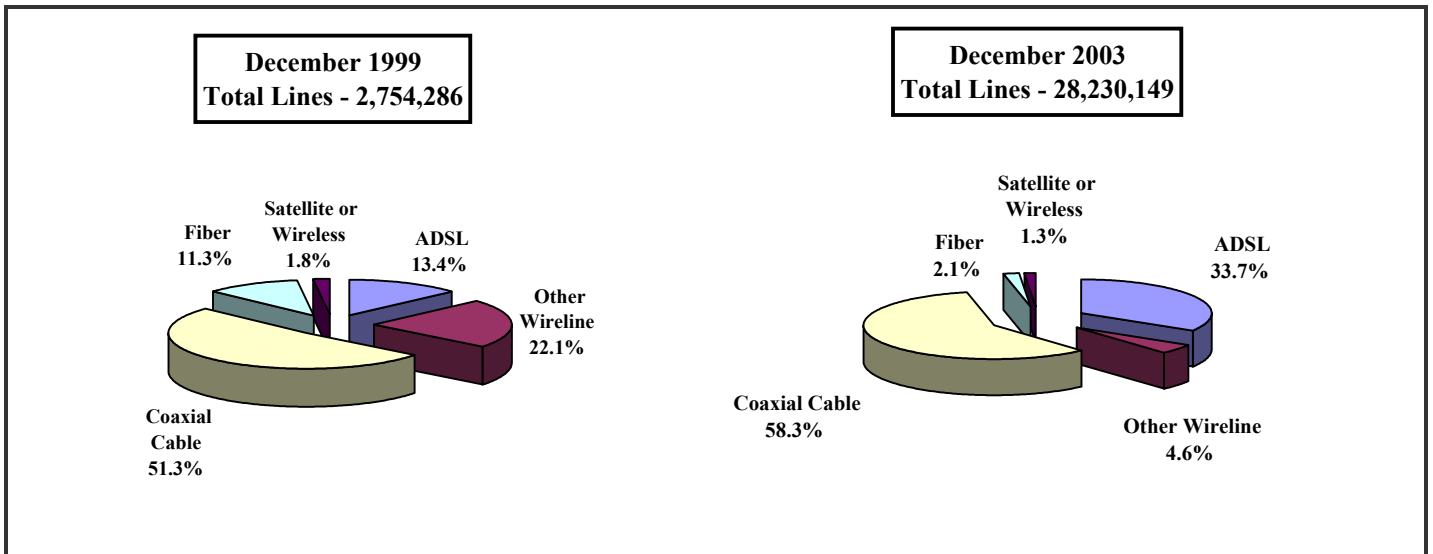


Table 2
Advanced Services Lines ¹
(Over 200 kbps in Both Directions)

Types of Technology ²	1999	2000		2001		2002		2003		Percent Change	
	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Dec 2002 - Jun 2003	Jun 2003 - Dec 2003
ADSL	185,950	326,816	675,366	998,883	1,369,143	1,852,879	2,178,394	2,536,368	3,037,474	16 %	20 %
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	0	7
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	43	28
Fiber	307,315	301,143	376,197	455,549	486,483	518,908	548,123	575,057	601,441	5	5
Satellite or Wireless	7,816	3,649	26,906	73,476	75,341	66,073	65,929	64,393	73,222	-2	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	32 %	25 %

See notes following Chart 8.

Chart 3
Advanced Services Lines

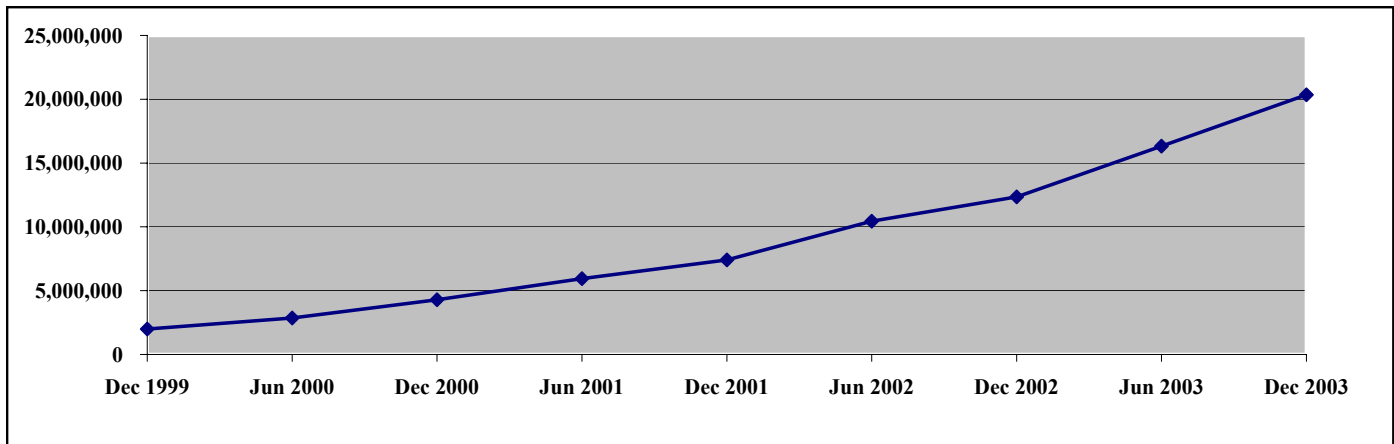


Chart 4
Advanced Services Lines by Technology

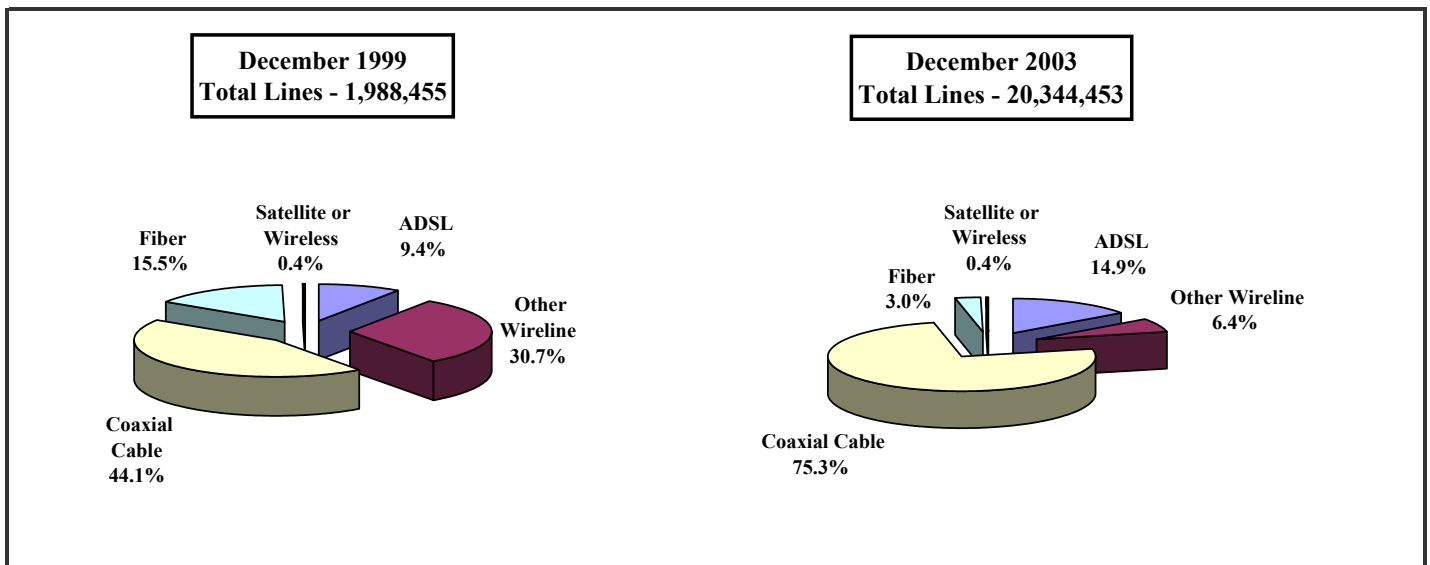


Table 3
Residential and Small Business High-Speed Lines¹
(Over 200 kbps in at Least One Direction)

Types of Technology ²	1999	2000		2001		2002		2003		Percent Change	
	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Dec 2002 - Jun 2003	Jun 2003 - Dec 2003
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	16 %	39 %
Other Wireline	46,856	111,490	176,520	138,307	139,660	223,599	213,489	250,372	289,764	17	16
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	20	20
Fiber	1,023	325	1,994	2,623	4,139	6,120	14,692	16,132	19,830	10	23
Satellite or Wireless	50,189	64,320	102,432	182,165	194,897	202,251	256,978	288,786	341,864	12	18
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	19 %	26 %

See notes following Chart 8.

Chart 5
Residential and Small Business High-Speed Lines

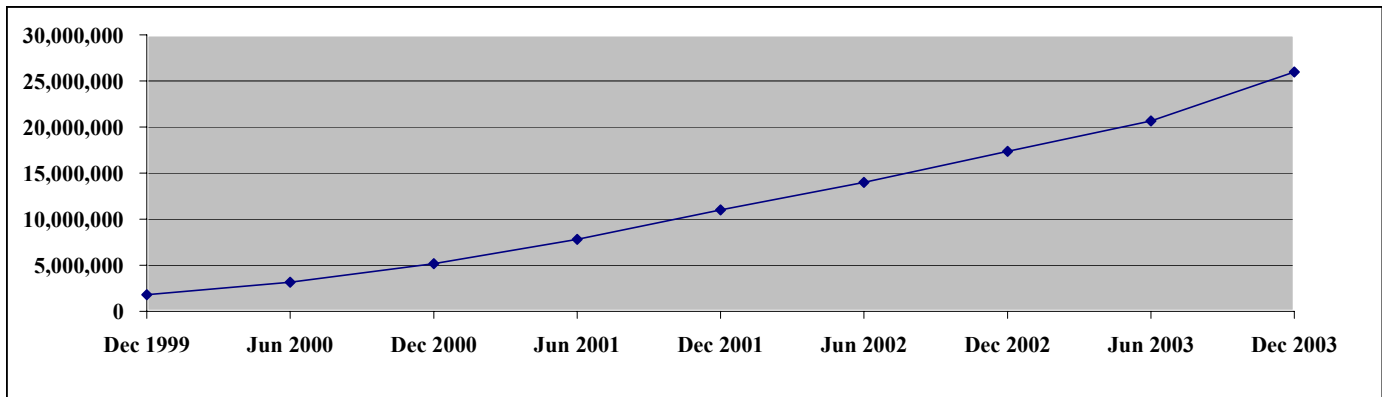


Chart 6
Residential and Small Business High-Speed Lines by Technology

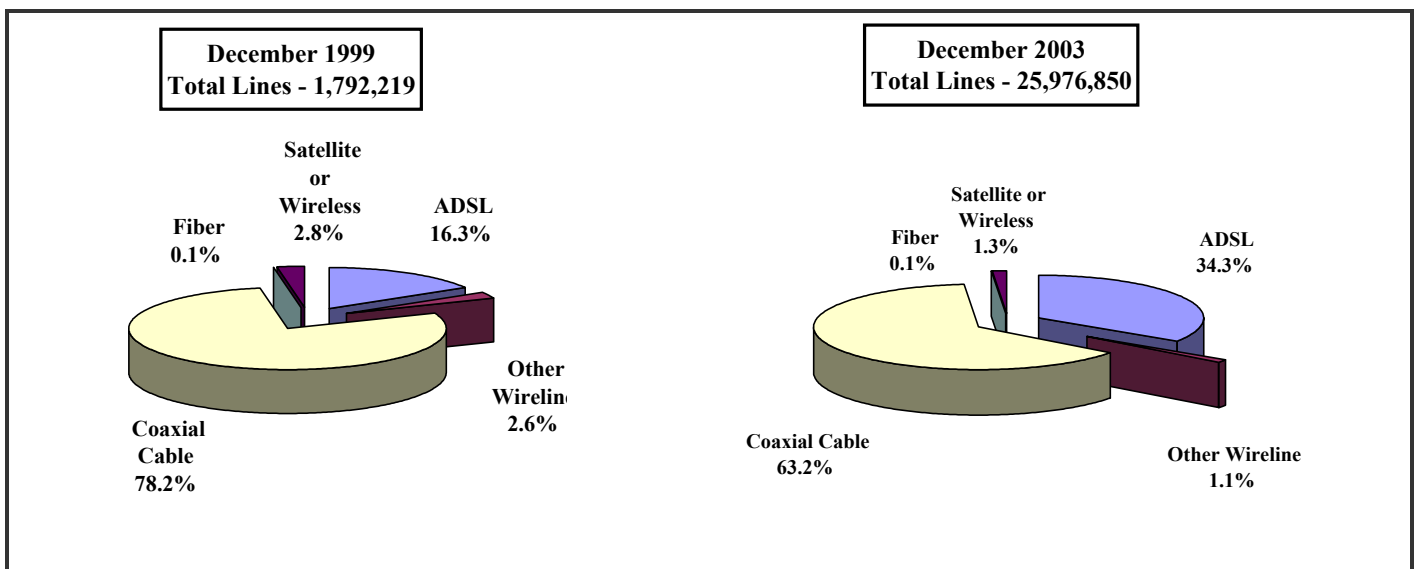


Table 4
Residential and Small Business Advanced Services Lines ¹
(Over 200 kbps in Both Directions)

Types of Technology ²	1999	2000		2001		2002		2003		Percent Change	
	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Dec 2002 - Jun 2003	Jun 2003 - Dec 2003
ADSL	116,994	195,324	393,246	916,364	1,243,996	1,580,575	1,827,547	2,071,779	2,437,059	13 %	18 %
Other Wireline	46,856	111,490	176,520	138,307	139,660	223,599	213,489	250,372	289,764	17	16
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	43	28
Fiber	138	325	1,992	2,617	3,523	5,118	14,408	15,751	19,074	9	21
Satellite or Wireless	7,682	2,916	17,043	60,988	58,113	47,787	47,903	46,407	51,944	-3	12
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	37 %	26 %

See notes following Chart 8.

Chart 7
Residential and Small Business Advanced Services Lines

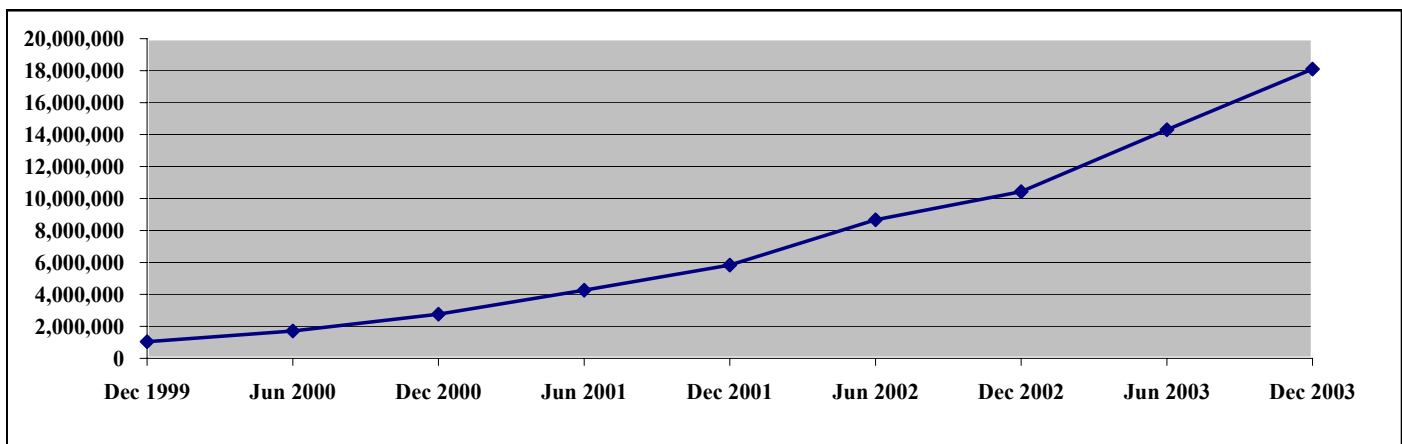
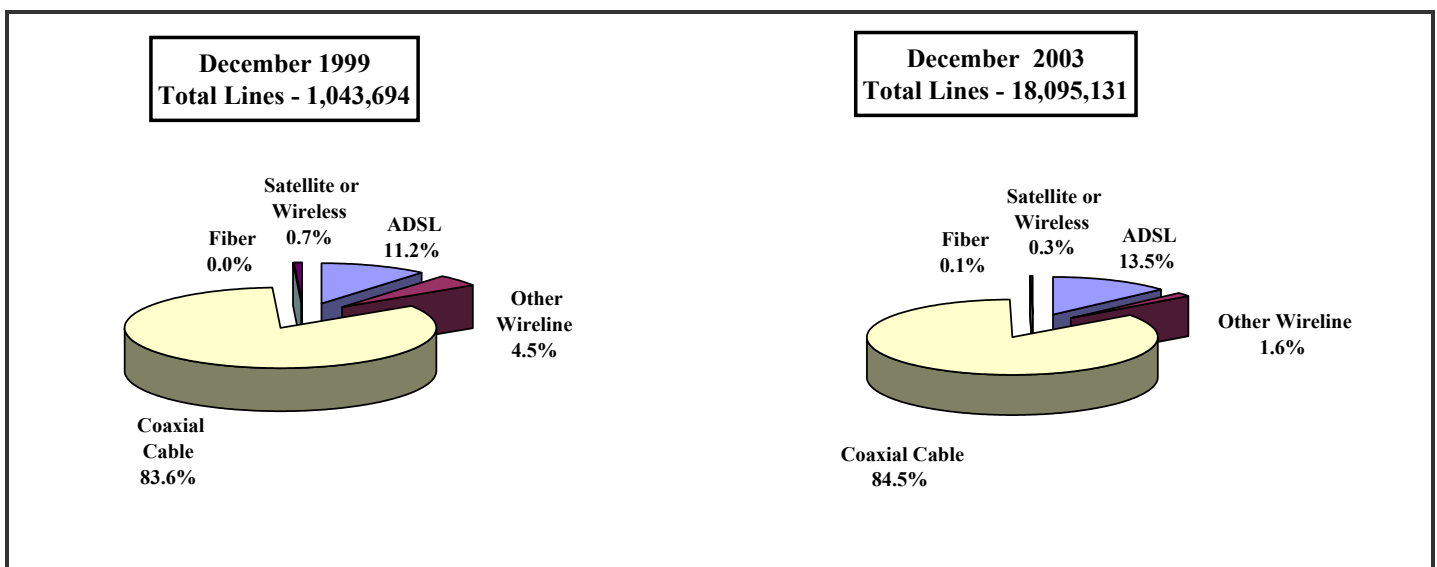


Chart 8
Residential and Small Business Advanced Services Lines by Technology



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 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, 2003
(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	7,965,589	1,064,985	478,868	9,509,442	83.8 %	11.2 %	5.0 %
Other Wireline	706,917	168,157	429,996	1,305,070	54.2	12.9	32.9
Coaxial Cable	*	*	16,416,816	16,446,322	*	*	99.8
Other	*	*	907,014	969,315	*	*	93.6
Total Lines	8,735,814	1,261,641	18,232,694	28,230,149	30.9 %	4.5 %	64.6 %

* 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

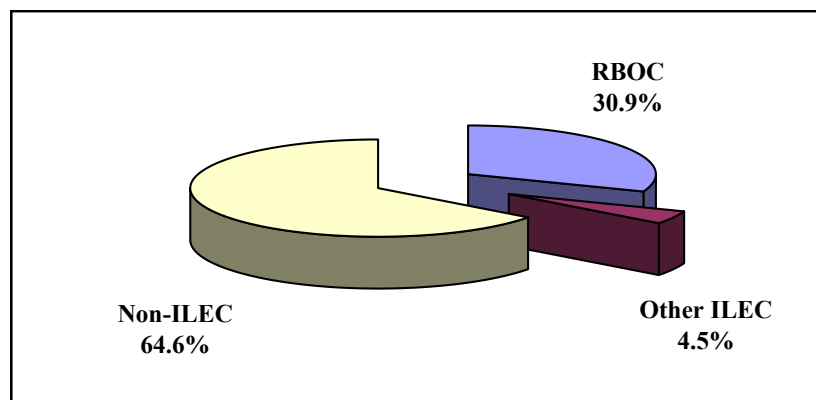


Table 6
Providers of High-Speed Lines by Technology as of December 31, 2003
(Over 200 kbps in at Least One Direction)

State	ADSL	Coaxial Cable	Other ¹	Total (Unduplicated)
Alabama	9	10	14	24
Alaska	5	*	5	8
Arizona	7	7	14	23
Arkansas	8	4	10	16
California	16	10	27	40
Colorado	7	5	13	19
Connecticut	5	5	12	17
Delaware	*	*	4	7
District of Columbia	4	*	10	12
Florida	12	9	27	35
Georgia	18	15	31	45
Hawaii	*	*	*	*
Idaho	7	*	7	13
Illinois	19	7	28	40
Indiana	15	9	20	29
Iowa	28	16	27	46
Kansas	16	14	23	35
Kentucky	12	7	11	25
Louisiana	8	4	10	16
Maine	4	*	7	12
Maryland	5	9	11	21
Massachusetts	6	7	14	21
Michigan	14	7	23	32
Minnesota	22	12	25	44
Mississippi	7	7	9	19
Missouri	12	10	19	28
Montana	10	*	9	17
Nebraska	10	8	14	22
Nevada	9	*	11	15
New Hampshire	6	4	12	17
New Jersey	5	4	13	16
New Mexico	8	4	8	15
New York	17	8	23	36
North Carolina	17	7	20	31
North Dakota	15	4	16	21
Ohio	14	12	27	36
Oklahoma	11	*	16	22
Oregon	15	5	17	26
Pennsylvania	16	9	20	34
Puerto Rico	*	*	*	5
Rhode Island	*	*	7	7
South Carolina	15	9	13	24
South Dakota	13	4	13	24
Tennessee	16	8	19	34
Texas	27	9	34	49
Utah	9	*	15	18
Vermont	6	*	9	11
Virgin Islands	*	0	*	*
Virginia	8	5	17	23
Washington	13	6	20	26
West Virginia	*	5	5	11
Wisconsin	15	4	16	25
Wyoming	4	*	4	7
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, 2003
(Over 200 kbps in at Least One Direction)

State	ADSL	Coaxial Cable	Other ¹	Total
Alabama	112,274	207,397	32,544	352,215
Alaska	17,184	*	*	71,778
Arizona	87,263	396,960	52,242	536,465
Arkansas	60,435	86,441	11,321	158,197
California	2,065,780	1,706,217	393,661	4,165,658
Colorado	155,137	231,075	39,219	425,431
Connecticut	167,439	260,415	16,671	444,525
Delaware	*	*	3,293	69,010
District. of Columbia	44,440	*	*	88,683
Florida	786,275	1,050,062	150,601	1,986,938
Georgia	452,567	361,127	113,704	927,398
Hawaii	*	*	*	*
Idaho	24,503	*	*	80,455
Illinois	466,052	494,110	128,608	1,088,770
Indiana	129,341	257,023	32,767	419,131
Iowa	48,226	131,073	12,165	191,464
Kansas	68,044	199,369	17,498	284,911
Kentucky	94,126	124,535	24,344	243,005
Louisiana	116,047	227,047	25,434	368,528
Maine	17,785	*	*	99,200
Maryland	152,906	385,408	39,690	578,004
Massachusetts	230,333	638,441	50,864	919,638
Michigan	175,202	611,131	62,504	848,837
Minnesota	134,914	317,853	33,072	485,839
Mississippi	41,740	61,163	13,592	116,495
Missouri	182,119	221,917	35,031	439,067
Montana	19,417	*	*	39,240
Nebraska	25,599	130,319	17,606	173,524
Nevada	61,014	*	*	247,442
New Hampshire	23,555	118,456	7,169	149,180
New Jersey	251,754	781,898	72,889	1,106,541
New Mexico	36,546	47,721	7,469	91,736
New York	497,071	1,597,556	168,177	2,262,804
North Carolina	210,958	559,276	71,896	842,130
North Dakota	14,034	13,030	4,507	31,571
Ohio	303,969	597,442	76,475	977,886
Oklahoma	106,031	*	*	286,510
Oregon	117,253	233,737	29,517	380,507
Pennsylvania	284,870	621,381	64,919	971,170
Puerto Rico	*	*	*	31,100
Rhode Island	*	*	4,514	122,255
South Carolina	77,599	209,889	23,418	310,906
South Dakota	11,635	11,042	5,880	28,557
Tennessee	116,785	308,630	45,926	471,341
Texas	772,697	1,019,623	132,344	1,924,664
Utah	76,466	*	*	162,905
Vermont	18,646	*	*	44,724
Virgin Islands	*	0	*	*
Virginia	144,584	517,924	54,331	716,839
Washington	262,149	367,321	42,777	672,247
West Virginia	*	78,018	*	100,937
Wisconsin	120,236	334,394	33,990	488,620
Wyoming	8,467	*	*	24,818
Nationwide	9,509,442	16,446,322	2,274,385	28,230,149

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

* 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	
	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec
Alabama	*	*	12,320	*	34,785	45,350	56,860	70,639	112,274
Alaska	0	0	0	*	7,975	11,337	14,295	14,013	17,184
Arizona	*	*	32,395	39,828	53,489	68,280	72,324	77,368	87,263
Arkansas	*	*	*	*	22,240	28,477	35,594	44,801	60,435
California	122,855	373,574	622,894	735,677	928,345	1,214,543	1,485,309	1,715,998	2,065,780
Colorado	*	*	42,810	52,617	70,615	100,197	113,040	126,189	155,137
Connecticut	*	*	22,348	30,142	41,261	61,093	100,722	124,742	167,439
Delaware	*	*	*	*	*	*	*	*	*
District of Columbia	*	*	*	16,313	*	28,723	35,466	39,471	44,440
Florida	*	37,806	115,133	170,702	306,015	391,188	521,623	644,621	786,275
Georgia	*	*	56,588	106,649	172,556	237,922	305,004	368,372	452,567
Hawaii	*	*	*	*	*	*	*	*	*
Idaho	*	*	*	*	13,643	16,108	17,930	19,382	24,503
Illinois	3,150	12,812	48,278	89,080	110,448	195,560	300,497	363,733	466,052
Indiana	*	*	6,442	2,375	22,385	36,685	63,463	85,968	129,341
Iowa	*	*	*	9,532	13,193	18,751	29,161	39,386	48,226
Kansas	0	*	14,281	*	23,564	28,713	39,315	50,839	68,044
Kentucky	5,690	*	16,327	20,256	43,191	55,454	55,254	75,316	94,126
Louisiana	*	*	22,788	37,444	58,019	73,120	86,359	100,919	116,047
Maine	0	*	*	6,877	*	*	8,432	11,052	17,785
Maryland	*	*	*	51,051	79,997	95,439	115,687	126,873	152,906
Massachusetts	*	15,802	53,700	82,699	125,630	147,139	181,426	207,344	230,333
Michigan	786	*	25,482	41,428	52,505	80,588	111,182	135,360	175,202
Minnesota	*	25,975	40,870	51,640	67,527	86,184	98,316	115,244	134,914
Mississippi	*	*	*	*	*	*	*	33,650	41,740
Missouri	*	*	38,759	53,250	68,186	84,642	114,861	138,046	182,119
Montana	*	*	1,760	2,842	4,272	7,108	6,549	13,119	19,417
Nebraska	*	*	*	9,293	13,637	11,547	16,117	18,285	25,599
Nevada	*	*	10,023	*	17,598	24,073	36,662	47,934	61,014
New Hampshire	*	*	3,339	5,651	9,618	11,781	14,630	17,823	23,555
New Jersey	*	*	59,332	102,430	151,829	172,472	197,615	211,540	251,754
New Mexico	*	*	*	7,578	*	18,224	22,607	26,948	36,546
New York	9,307	41,656	124,146	197,135	285,814	338,229	391,686	438,241	497,071
North Carolina	*	8,662	23,815	41,332	65,582	89,680	124,031	161,642	210,958
North Dakota	*	*	*	*	4,849	6,575	8,826	11,593	14,034
Ohio	*	33,603	55,046	87,567	112,527	151,612	205,140	243,689	303,969
Oklahoma	*	*	*	31,321	39,978	50,617	65,378	78,248	106,031
Oregon	*	19,989	31,644	25,877	57,899	68,747	82,555	95,654	117,253
Pennsylvania	7,377	18,313	60,083	89,595	136,829	162,258	200,501	230,322	284,870
Puerto Rico	0	0	0	*	*	*	*	*	*
Rhode Island	0	*	*	*	*	*	*	*	*
South Carolina	*	*	5,168	9,704	18,686	26,184	38,293	52,667	77,599
South Dakota	*	*	*	1,652	2,869	4,389	6,308	8,637	11,635
Tennessee	*	*	13,705	22,902	42,571	57,984	74,034	92,777	116,785
Texas	*	73,117	158,513	197,668	300,752	368,796	486,833	597,447	772,697
Utah	*	*	17,352	23,476	33,306	47,637	57,025	65,648	76,466
Vermont	0	*	*	*	*	9,409	12,062	15,072	18,646
Virgin Islands	0	0	0	*	*	*	*	*	*
Virginia	7,425	9,510	26,750	39,114	65,298	75,524	96,805	114,797	144,584
Washington	*	52,345	79,130	64,812	140,273	172,652	200,189	225,377	262,149
West Virginia	0	*	*	*	*	*	*	*	*
Wisconsin	*	1,063	8,623	17,800	28,233	42,052	64,521	84,100	120,236
Wyoming	*	*	*	*	*	*	*	5,503	8,467
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

* 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	
	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
Alaska	0	0	0	0	*	*	*	*	*
Arizona	*	*	*	*	151,916	194,431	251,373	319,272	396,960
Arkansas	*	*	*	*	*	*	*	*	86,441
California	221,472	297,415	476,544	609,174	786,789	1,013,503	1,179,204	1,395,435	1,706,217
Colorado	*	*	*	*	*	*	*	181,766	231,075
Connecticut	28,702	47,127	78,234	106,019	137,003	160,913	192,155	227,658	260,415
Delaware	*	*	*	*	*	*	*	*	*
District of Columbia	*	*	*	*	*	*	*	*	*
Florida	110,000	129,830	255,978	372,190	486,977	595,806	741,426	867,513	1,050,062
Georgia	18,114	48,947	75,474	109,922	156,142	183,886	243,142	289,922	361,127
Hawaii	*	*	*	*	0	*	*	*	*
Idaho	0	*	*	*	*	*	*	*	*
Illinois	*	83,737	126,490	144,872	204,202	242,394	316,169	383,069	494,110
Indiana	7,412	33,431	37,052	56,441	78,837	98,414	114,237	122,338	257,023
Iowa	14,027	42,081	48,008	59,253	63,788	77,592	83,994	111,748	131,073
Kansas	*	*	48,541	74,337	94,047	111,615	142,563	181,437	199,369
Kentucky	*	*	*	*	*	12,867	22,113	23,672	124,535
Louisiana	*	*	*	64,219	88,851	115,198	*	189,920	227,047
Maine	*	*	*	*	*	*	*	*	*
Maryland	*	42,412	65,668	97,466	143,174	181,864	241,264	306,442	385,408
Massachusetts	*	148,233	210,019	243,670	339,244	391,391	453,473	564,961	638,441
Michigan	51,111	94,586	130,296	301,842	329,697	402,642	472,405	543,336	611,131
Minnesota	14,346	30,485	64,215	80,259	113,900	166,323	212,126	255,988	317,853
Mississippi	*	*	*	*	12,998	27,872	40,276	50,234	61,163
Missouri	*	16,482	42,255	51,733	89,370	110,026	117,403	191,658	221,917
Montana	0	*	*	*	*	*	*	*	*
Nebraska	*	*	*	37,168	49,939	73,306	92,261	111,903	130,319
Nevada	*	*	*	*	*	*	*	*	*
New Hampshire	*	*	*	*	*	*	*	95,612	118,456
New Jersey	*	*	*	*	375,362	454,750	578,337	690,620	781,898
New Mexico	0	0	*	*	*	*	*	38,004	47,721
New York	110,382	*	377,521	564,423	780,473	967,949	1,185,233	1,401,322	1,597,556
North Carolina	24,200	42,713	73,092	115,949	239,107	313,884	406,024	454,272	559,276
North Dakota	0	*	*	*	*	*	*	10,066	13,030
Ohio	*	*	127,692	213,606	264,031	363,675	435,404	508,458	597,442
Oklahoma	*	*	*	*	*	*	*	*	*
Oregon	*	*	*	*	*	*	165,343	197,794	233,737
Pennsylvania	34,878	38,340	85,104	131,119	190,915	300,840	376,611	482,471	621,381
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
South Dakota	0	*	*	*	*	*	7,916	9,156	11,042
Tennessee	*	*	77,760	96,119	158,120	199,121	252,596	277,579	308,630
Texas	76,520	137,670	227,070	328,900	427,324	577,233	740,469	888,595	1,019,623
Utah	*	*	*	*	*	*	*	*	*
Vermont	*	*	*	*	*	*	*	*	*
Virgin Islands	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
Washington	*	*	*	*	*	217,644	246,627	313,915	367,321
West Virginia	*	*	*	*	*	48,858	65,542	73,263	78,018
Wisconsin	*	*	*	*	*	189,585	243,043	287,519	334,394
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

* Data withheld to maintain firm confidentiality.

Table 11
High-Speed Lines by Type of User as of December 31, 2003
(Over 200 kbps in at Least One Direction)

State	Residential & Small Business	Other ¹	Total
Alabama	311,102	41,113	352,215
Alaska	65,816	5,962	71,778
Arizona	516,173	20,292	536,465
Arkansas	150,877	7,320	158,197
California	3,803,058	362,600	4,165,658
Colorado	392,395	33,036	425,431
Connecticut	425,271	19,254	444,525
Delaware	66,582	2,428	69,010
District of Columbia	69,333	19,350	88,683
Florida	1,760,190	226,748	1,986,938
Georgia	751,648	175,750	927,398
Hawaii	*	*	*
Idaho	78,195	2,260	80,455
Illinois	975,318	113,452	1,088,770
Indiana	386,695	32,437	419,131
Iowa	181,811	9,653	191,464
Kansas	274,187	10,724	284,911
Kentucky	211,719	31,286	243,005
Louisiana	330,290	38,238	368,528
Maine	95,119	4,081	99,200
Maryland	549,363	28,641	578,004
Massachusetts	871,522	48,116	919,638
Michigan	792,837	56,000	848,837
Minnesota	457,283	28,556	485,839
Mississippi	100,638	15,857	116,495
Missouri	404,995	34,072	439,067
Montana	37,174	2,066	39,240
Nebraska	163,495	10,029	173,524
Nevada	227,216	20,226	247,442
New Hampshire	143,733	5,447	149,180
New Jersey	1,037,991	68,550	1,106,541
New Mexico	85,798	5,938	91,736
New York	2,098,857	163,947	2,262,804
North Carolina	752,233	89,897	842,130
North Dakota	30,636	935	31,571
Ohio	892,936	84,950	977,886
Oklahoma	270,534	15,976	286,510
Oregon	365,309	15,198	380,507
Pennsylvania	915,876	55,294	971,170
Puerto Rico	29,542	1,558	31,100
Rhode Island	118,177	4,078	122,255
South Carolina	278,160	32,746	310,906
South Dakota	27,351	1,206	28,557
Tennessee	416,290	55,051	471,341
Texas	1,803,534	121,130	1,924,664
Utah	152,100	10,805	162,905
Vermont	42,889	1,835	44,724
Virgin Islands	*	*	*
Virginia	676,676	40,163	716,839
Washington	632,652	39,595	672,247
West Virginia	97,802	3,135	100,937
Wisconsin	457,189	31,431	488,620
Wyoming	23,505	1,313	24,818
Nationwide	25,976,850	2,253,299	28,230,149

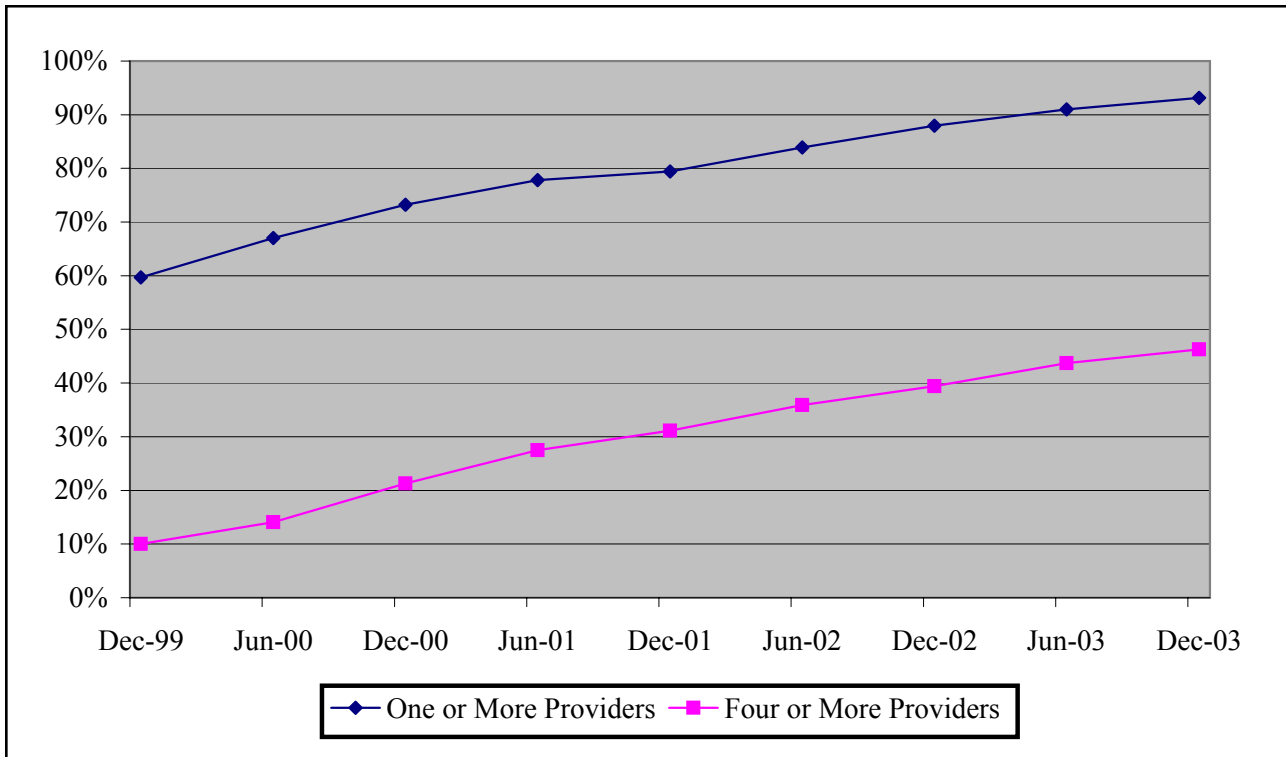
* Data withheld to maintain firm confidentiality.

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

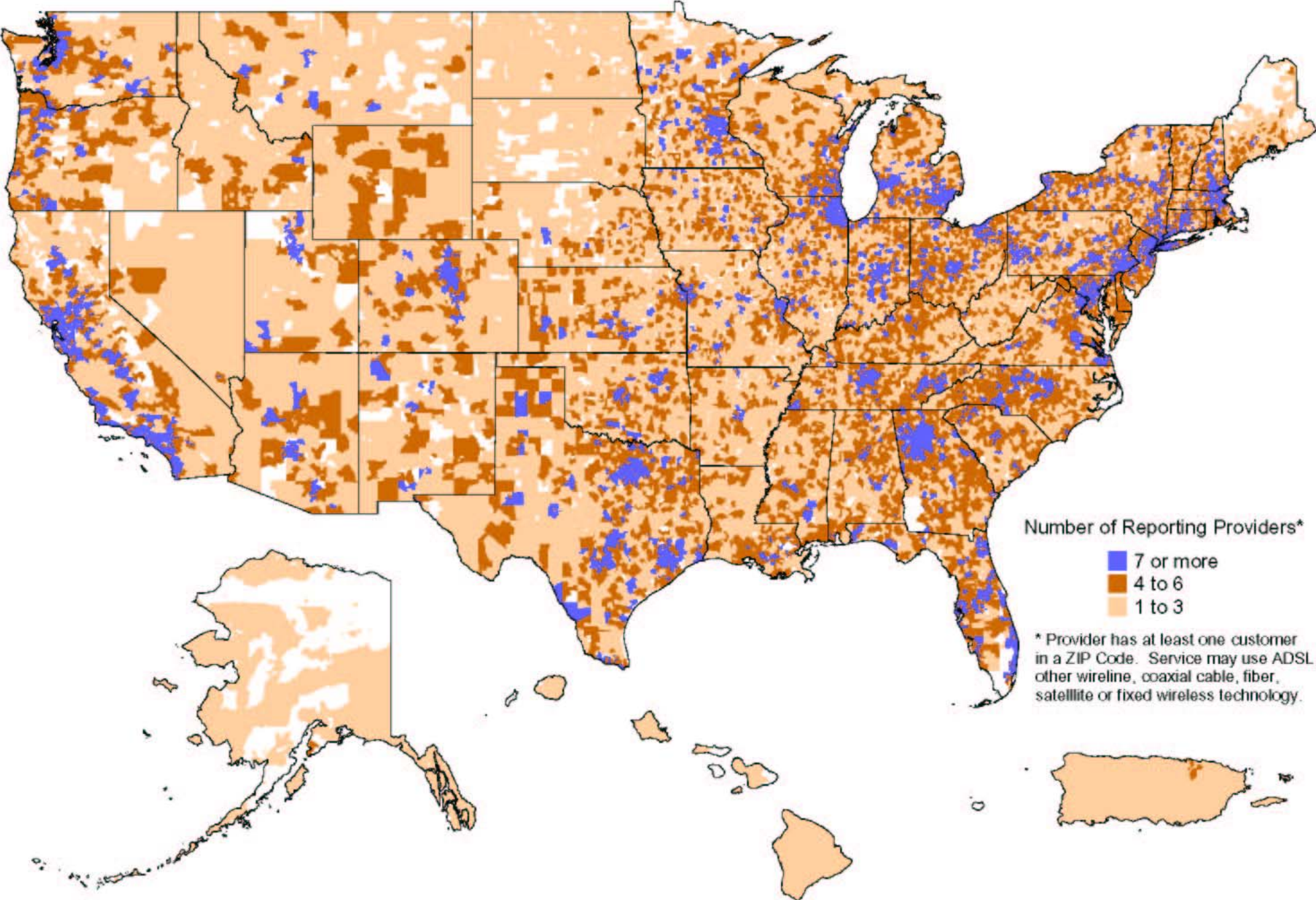
Table 12
Percentage of Zip Codes with High-Speed Lines in Service

Number of Providers	1999	2000		2001		2002		2003	
	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 %
One	26.0	25.9	22.7	20.3	19.3	18.4	17.3	16.4	14.9
Two	15.5	17.8	18.4	16.7	15.7	16.2	16.8	16.9	17.1
Three	8.2	9.2	10.9	13.2	13.1	13.3	14.4	14.0	14.9
Four	4.3	4.9	6.1	8.2	9.1	9.6	10.3	10.6	11.2
Five	2.7	3.4	4.0	4.9	6.1	6.9	7.3	7.7	7.8
Six	1.7	2.5	3.0	3.6	4.2	4.6	5.0	5.3	5.8
Seven	0.8	1.7	2.3	2.8	3.2	3.2	3.9	4.0	4.2
Eight	0.3	0.8	2.0	2.2	2.5	2.8	2.7	3.1	3.3
Nine	0.2	0.4	1.6	1.9	2.0	2.4	2.2	2.5	2.6
Ten or More	0.0	0.4	2.4	3.9	4.0	6.4	8.0	10.5	11.4

Chart 10
Percent of Zip Codes with High-Speed Providers



High-Speed Providers by ZIP Code (As of December 31, 2003)



Number of Reporting Providers*

- 7 or more
- 4 to 6
- 1 to 3

* Provider has at least one customer in a ZIP Code. Service may use ADSL, other wireline, coaxial cable, fiber, satellite or fixed wireless technology.

Table 13
Percentage of Zip Codes with High-Speed Lines in Service as of December 31, 2003
(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	9 %	14 %	15 %	17 %	18 %	12 %	7 %	4 %	3 %	1 %	0 %
Alaska	3	32	55	9	1	0	0	0	0	0	0
Arizona	2	5	15	17	7	9	4	5	4	4	28
Arkansas	16	25	25	16	8	3	3	2	1	1	0
California	2	6	11	11	8	4	5	4	5	5	39
Colorado	4	13	18	16	10	4	5	3	4	3	20
Connecticut	0	2	10	13	13	9	8	7	7	7	22
Delaware	0	0	4	16	33	32	16	0	0	0	0
District of Columbia	0	0	7	7	0	4	0	7	7	4	63
Florida	1	2	6	11	13	10	9	8	7	7	27
Georgia	2	7	10	15	14	14	8	4	5	2	18
Hawaii	13	43	37	7	0	0	0	0	0	0	0
Idaho	11	23	27	15	9	13	2	0	0	0	0
Illinois	7	14	19	15	9	6	4	4	2	2	18
Indiana	3	16	20	16	13	8	6	4	3	2	8
Iowa	18	27	19	14	10	7	4	2	1	0	0
Kansas	7	19	21	20	10	7	5	3	4	2	1
Kentucky	15	22	18	15	10	8	7	3	1	0	0
Louisiana	5	16	20	19	16	11	8	3	1	0	0
Maine	12	25	27	17	14	3	2	0	0	0	0
Maryland	2	7	11	11	12	8	11	5	4	3	27
Massachusetts	0	2	13	12	14	11	8	7	6	3	24
Michigan	2	10	17	18	11	9	6	5	3	3	17
Minnesota	14	20	16	11	10	5	4	3	3	2	12
Mississippi	5	14	23	24	16	9	5	4	1	0	0
Missouri	14	23	20	13	6	5	4	3	4	4	3
Montana	19	28	26	15	3	2	2	3	1	0	0
Nebraska	17	25	23	15	11	5	3	1	0	0	0
Nevada	4	28	14	9	14	9	15	5	3	0	0
New Hampshire	1	5	13	16	14	16	10	6	5	4	9
New Jersey	0	3	7	9	13	12	10	8	10	13	15
New Mexico	14	27	26	8	11	4	1	4	4	0	0
New York	2	10	12	16	13	11	7	6	4	3	16
North Carolina	2	8	15	20	19	12	8	5	2	2	9
North Dakota	17	54	23	5	2	1	0	0	0	0	0
Ohio	1	7	14	18	17	12	9	6	3	3	11
Oklahoma	7	22	17	17	9	7	6	7	5	1	0
Oregon	5	10	18	18	17	7	5	2	4	4	11
Pennsylvania	7	14	15	14	11	8	6	6	3	3	13
Puerto Rico	0	8	50	34	8	0	0	0	0	0	0
Rhode Island	0	6	3	6	17	28	17	25	0	0	0
South Carolina	4	13	20	17	14	12	9	7	3	1	0
South Dakota	25	32	25	11	3	3	0	0	0	0	0
Tennessee	3	10	16	16	14	12	8	6	4	3	9
Texas	4	10	14	13	10	8	7	6	5	4	19
Utah	10	21	18	12	5	3	2	1	2	2	24
Vermont	4	14	23	22	14	13	9	1	0	0	0
Virginia	8	15	18	17	13	6	4	4	2	2	12
Washington	5	9	18	16	8	5	5	5	6	4	18
West Virginia	21	32	19	13	8	5	1	0	0	0	0
Wisconsin	3	14	21	18	14	8	8	8	4	2	0
Wyoming	8	25	21	28	5	11	1	0	0	0	0
Nationwide	7 %	15 %	17 %	15 %	11 %	8 %	6 %	4 %	3 %	3 %	11 %

Table 14
High-Speed Subscribership
Ranked by Population Density

Persons per Square Mile ¹	Percent of Zip Codes with at Least One High-Speed Subscriber				Percent of Population that Resides in Zip Codes with High-Speed Service			
	Dec 2000	Dec 2001	Dec 2002	Dec 2003	Dec 2000	Dec 2001	Dec 2002	Dec 2003
More Than 3,147	98.2 %	98.1 %	98.7 %	98.9 %	99.9 %	99.8 %	100.0 %	100.0 %
947-3,147	97.1	97.3	98.2	98.5	99.8	99.7	100.0	99.9
268-947	95.7	95.8	97.9	98.8	99.3	99.5	99.9	100.0
118-268	91.5	93.3	96.7	97.9	98.1	99.1	99.7	99.8
67-118	85.9	89.3	95.0	97.5	95.0	97.1	99.1	99.7
41-67	76.1	83.3	91.5	96.0	87.9	94.4	97.8	99.0
25-41	65.0	73.1	87.6	92.6	80.0	87.6	95.6	97.7
15-25	50.1	61.2	77.8	88.0	69.4	80.4	90.8	95.7
6-15	38.5	52.1	69.4	82.7	61.9	76.2	86.4	93.2
Fewer Than 6	27.5	43.3	59.7	73.5	49.9	67.9	80.9	88.9

Table 15
High-Speed Subscribership
Ranked by Household Income

Median Household Income ¹	Percent of Zip Codes with at Least One High-Speed Subscriber				Percent of Population that Resides in Zip Codes with High-Speed Service			
	Dec 2000	Dec 2001	Dec 2002	Dec 2003	Dec 2000	Dec 2001	Dec 2002	Dec 2003
\$53,494 to \$291,938	96.1 %	96.8 %	98.3 %	98.7 %	99.8 %	99.6 %	99.9 %	99.9 %
\$43,617 to \$53,478	88.9	91.7	95.3	97.4	99.0	99.3	99.8	99.9
\$38,396 to \$43,614	79.5	84.9	92.1	96.0	97.8	98.6	99.5	99.8
\$34,744 to \$38,395	74.5	79.9	88.2	94.0	96.6	97.6	99.1	99.6
\$32,122 to \$34,743	71.2	78.2	87.1	92.5	95.9	97.6	98.9	99.4
\$29,893 to \$32,121	67.4	75.5	85.6	91.8	94.5	96.8	98.5	99.3
\$27,542 to \$29,892	66.9	75.2	85.4	91.8	93.8	96.5	98.3	99.2
\$24,855 to \$27,541	65.1	71.8	83.2	89.8	93.1	95.6	98.1	98.9
\$21,645 to \$24,855	61.2	70.0	83.1	90.1	91.1	95.0	97.9	99.0
\$0 to \$21,644	54.9	62.7	74.5	81.9	91.5	95.1	97.5	98.6

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, 2003.*

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	()	()	()	()	()
	Data presentation	()	()	()	()	()
	Timeliness of data	()	()	()	()	()
	Completeness of data	()	()	()	()	()
	Text clarity	()	()	()	()	()
	Completeness of text	()	()	()	()	()

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

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