## 10. Infrastructure

The infrastructure information contained in this section is based upon data collected by the FCC as part of its price-cap monitoring procedures. ${ }^{1}$ This summary is intended to highlight changes in the use of technology in the local telephone company plant. The data (ARMIS 43-07 reports ${ }^{2}$ ) upon which this infrastructure summary is based are due April 1 for the previous calendar year. This infrastructure section includes data through calendar year 2004. ${ }^{3}$ The most recent data were due April 1, 2005. Revisions are only included in this section if they are filed early enough for inclusion; however, this section contains many revisions to historical data filed subsequent to cutoff dates for last year's summary.

## Background

The data items presented here summarize ARMIS Report 43-07, which is filed by local exchange carriers subject to mandatory price-cap regulation. The information contained in this section is for the years 1994 through 2004. Recent changes to our infrastructure data collection process are reflected beginning with filed data for calendar year 2003. A number of items were eliminated from reporting requirements and historical information for these items is no longer shown in this section. ${ }^{4}$ Most of the eliminated items relate to switching technologies that have

1 Policy and Rules Concerning Rates For Dominant Carriers, CC Docket No. 87-313, Second Report and Order, 5 FCC Rcd 6786 (1990) (LEC Price Cap Order), Erratum, 5 FCC Rcd 7664 (Com. Car. Bur. 1990); Policy and Rules Concerning Rates For Dominant Carriers, CC Docket No. 87-313, Memorandum Opinion and Order, 8 FCC Rcd 7474 (Com. Car. Bur. 1993) (Service Quality Modifications Order).

2 ARMIS, an acronym for Automated Reporting Management Information System, is a publicly available repository of financial, plant, demand, and quality-of-service data. Additional infrastructure data are contained in the ARMIS 43-08 report. See Statistics of Communications Common Carriers, published annually by the Wireline Competition Bureau's Industry Analysis and Technology Division for a compilation of ARMIS 43-08 infrastructure data.

3 See Infrastructure of the Local Operating Companies Aggregated to the Holding Company Level, released April 24, 1995 for data for the years 1989 and 1990. Some of the data for those early years are not a part of this summary and may contain discrepancies that make the early data inconsistent with that of later years. Reports containing data for the early years can be found in the infrastructure section of the Wireline Competition Bureau Statistical Reports Internet site at www.fcc.gov/wcb/stats under the file names INFRA99.ZIP, INFRA98.ZIP, INFRA95.ZIP, and INFRA93.ZIP. More recent reports can be found in Section 10 of earlier versions of this report on the same web page under the section covering the Commission's Federal-State Joint Board Monitoring Reports.

4 Historical information for the entries that are no longer reported can be found in Monitoring Reports released prior to 2003 and in the reports noted in footnote 3.
become obsolete or reflect virtually complete deployment of capabilities such as touch-tone capability. New data are being collected on hybrid copper/fiber interfaces in the network but most of the carriers have requested proprietary treatment for the data. As a result, the data are not provided in this section.

The ARMIS 43-07 reports are filed only by those local exchange companies originally subject to mandatory price-cap regulation--the Bell operating companies (BOCs). ${ }^{5}$ Together, these large companies are estimated to serve about $90 \%$ of all incumbents' access lines nationwide. The data are generally filed at the study area level, which typically consists of a company's operations within a state. The state-by-state data are available from the Commission's ARMIS web page at [http://www.fcc.gov/wcb/eafs/](http://www.fcc.gov/wcb/eafs/). ${ }^{6}$ This web page has been redesigned and provides more features than were previously available. The information summarized in this section is organized into two sets of tables with the following designations: Table 10.1 shows switching system data and gross plant expenditures covering all types of plant. Table 10.2 shows transmission system data. Each set of tables contains segments for each of the regional Bell operating companies (along with Verizon's GTE companies shown separately) with aggregated summary data for all the reporting companies. The data summarized for each holding company reflect the aggregate of data filed for individual states or study areas and should be useful in assessing overall trends. In some cases, refiled data may cause values to differ from prior summary reports. Recent data reflect mergers of GTE and Bell Atlantic, which are now under the name Verizon Communications, and the acquisitions by SBC of Ameritech, Pacific Telesis, and Southern New England Telephone.

## Description of the Technologies and Analysis of the Data

The data in the attached tables provide an historical series for a variety of plant elements that illustrate the deployment of technology in the networks of the major local exchange carriers. ${ }^{7}$ The data items provide a picture of the well established technologies in use. This section highlights key trends in the evolution of basic telecommunications infrastructure and illustrates the replacement of older technologies with newer ones. In some cases, older

5 See footnote 1.
6 To access ARMIS data from <www.fcc.gov/wcb/eafs> click on the words "download ARMIS data" and select the desired report, table and row(s)." To access data instructions and definitions applicable to the 43-07 report click on the words "ARMIS site map" at the top of the second screen and then select the 43-07 report and table desired.

7 A number of irregularities including time series anomalies have been noted in the data. The companies are typically notified of these observed problems and either file revisions or explanations. Revisions are initially made available on the ARMIS database website noted above.
technologies either no longer exist or are in very limited use. This section reflects recent revisions to the ARMIS 43-07 report from which the data in this summary are obtained. ${ }^{8}$

ARMIS data currently collected only cover circuit switches that provide a dedicated path through the network for the duration of a call, not routers or switches that are used to handle Internet traffic or in connection with frame relay and ATM services that are specifically designed to handle data packets. ${ }^{9}$ Almost all of the major local exchange carrier switches are digital. More than 40 percent of these are ISDN capable. However, the rate at which new ISDN switching capability is being added to the network has slowed considerably, in recent years with 136 additional ISDN capable switches being reported in 2004. In 2004, the reported number of equipped ISDN Primary Rate Interfaces increased about 2 percent, from 556,226 to 567,255 and ISDN basic rate interfaces also increased about $2 \%$. ${ }^{10}$

A number of transmission elements are included in Table 10.2. Definitions for these elements can be found on the Commissions ARMIS website noted above. These illustrate the rapid development of fiber capacity in terms of terminations, sheath kilometers, and links. The number of sheath kilometers of fiber more than doubled over the decade 1994-2004, with about 42,000 new fiber sheath kilometers being reported in 2004. During the same period, the number of sheath kilometers of copper remained steady at somewhat over 5 million, and other sheath data, in relative terms, were not significant.

Table 10.2 also highlights the relative magnitude of equipped and working channels. Copper working channels have declined in 2004, while fiber working channels increased. Total interoffice circuit links have also declined from last year. Although circuits connecting local central offices could typically be provided on only two fibers, the economics of fiber deployment have resulted in deployments of typical fiber cables containing more than 40 fibers. This suggests that there is a significant amount of fiber capacity currently unused in the interoffice transmission plant. ${ }^{11}$

82000 Biennial Regulatory Review - Comprehensive Review of the Accounting Requirements and ARMIS Reporting Requirements for Incumbent Local Exchange Carriers: Phase 2; Amendments to the Uniform System of Accounts for Interconnection; Jurisdictional Separations Reform and Referral to the Federal-State Joint Board; and Local Competition and Broadband Reporting, CC Docket Nos. 00-199, 99-301, 97-212, 80-286, Report and Order in CC Docket Nos. 00-199, 97-212, and 80-286, Further Notice of Proposed Rulemaking in CC Docket Nos. 00-199, 99-301, and 80-286, 16 FCC Rcd 19911 (2001), recon pending (Phase 2 Report and Order).

9 Remote switches as defined in this report only cover those switches capable of functioning if the host switch fails.

10 Table 10.1 includes the number of switch terminations that are available for ISDN and ISDN capable lines. Table 10.2 includes the number of copper loops that are capable of supporting ISDN.

11 A large portion of the cost of fiber deployment is associated with labor and installation

Although the historical level of growth in fiber has been high, its use in the local loop at present appears to be relatively small. The reporting companies included in this section had an installed base of about 241 million copper-pair mainframe terminations in their central offices for local loop use in 2004. In comparison, about 2.8 million fiber loop central office terminations had been installed by end-of-year 2004. The data show that the number of these terminations increased by about 4\% during 2004. In 2004 DS-3 terminations on fiber facilities grew by about $12 \%$. Fiber and hybrid copper/fiber systems are becoming increasingly important in the local loop as the number of high-quality copper pairs available to support higher data rate digital services declines.

As noted earlier, the data presented in this section do not include data associated with hybrid fiber/copper interfaces including information on offerings of xDSL services for which the companies requested proprietary treatment. ${ }^{12}$ Readers interested in more disaggregated information may wish to examine data at a more localized level than presented here. ${ }^{13}$
rather than with the cable itself. Thus, the incremental cost of installing a larger fiber cable is typically relatively small. This suggests that the sheath-kilometer parameter shown in the attached tables may be a better measure of fiber coverage than fiber kilometers. In general, care should be exercised in interpreting aggregate fiber data when determining, for example, whether fiber is concentrated in certain parts of a company's service area with relatively little fiber elsewhere. See Fiber Deployment Update - End of Year 1998, released Sept. 9, 1999: <www.fcc.gov/wcb/iatd/stats.html>: FIBER98.ZIP (authored by J. Kraushaar, Industry Analysis and Technology Division, Wireline Competition Bureau, Federal Communications Commission).

12 xDSL (Digital Subscriber Loop) services that are now available offer broadband digital capability using special terminal equipment that enhances the capability of existing copper access lines.

13 Individual study-area data are also available to address more localized issues. This information is available from the ARMIS web page at <www.fcc.gov/wcb/eafs/>.

## Table 10.1

## Switching Data

## Total - All Companies

|  | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Local Switches | 15,073 | 15,556 | 16,267 | 16,099 | 16,117 | 16,261 | 14,841 | 14,837 | 14,051 | 14,053 | 14,064 |
| Tandems | 442 | 458 | 484 | 481 | 493 | 492 | 504 | 517 | 526 | 544 | 568 |
| Hosts | 2,186 | 2,310 | 2,432 | 2,519 | 2,471 | 2,461 | 2,401 | 2,338 | 2,274 | 2,169 | 2,156 |
| Remotes (Stand Alone Only) | 6,451 | 6,902 | 7,098 | 7,122 | 7,977 | 8,103 | 7,406 | 7,412 | 7,383 | 7,382 | 7,312 |
| Total Switches | 15,251 | 15,740 | 16,486 | 16,363 | 16,392 | 16,516 | 15,092 | 15,109 | 14,353 | 14,376 | 14,399 |
| Analog Stored Program Control | 1,179 | 1,002 | 735 | 509 | 431 | 314 | 203 | 139 | 107 | 84 | 73 |
| Digital Stored Program Control | 13,138 | 14,055 | 15,356 | 15,686 | 15,961 | 16,202 | 14,889 | 14,970 | 14,245 | 14,292 | 14,326 |
| Total Number Access Lines in Service (000) | 132,421 | 138,144 | 143,239 | 151,167 | 155,530 | 159,364 | 160,557 | 155,543 | 148,292 | 142,698 | 136,057 |
| Analog Stored Program Control Lines Served | 33,699 | 29,409 | 24,803 | 19,883 | 16,688 | 11,713 | 7,317 | 4,810 | 3,283 | 2,436 | 1,981 |
| Digital Stored Program Control Lines Served | 97,859 | 108,170 | 118,149 | 131,127 | 138,842 | 147,651 | 153,240 | 150,732 | 145,009 | 140,262 | 134,076 |
| Total Switches Equipped w/SS7-394 (InterLATA) Svc. | 10,195 | 11,742 | 13,171 | 13,813 | 15,148 | 15,994 | 14,822 | 14,954 | 14,258 | 14,342 | 14,366 |
| Total Switches Equipped with ISDN | 2,668 | 3,256 | 3,852 | 4,759 | 5,392 | 5,735 | 5,414 | 5,465 | 5,664 | 5,651 | 5,787 |
| Lines with Access to ISDN (000) | 61,518 | 77,492 | 95,113 | 109,817 | 121,408 | 127,357 | 132,886 | 129,075 | 124,451 | 119,422 | 115,561 |
| Basic Rate ISDN (BRI) Interfaces Equipped | 800,964 | 1,038,902 | 1,507,551 | 2,224,772 | 2,491,509 | 2,720,871 | 2,815,671 | 3,097,905 | 2,860,453 | 2,590,905 | 2,637,353 |
| Primary Rate ISDN (PRI) Interfaces Equipped | 15,526 | 32,580 | 67,885 | 164,294 | 234,515 | 334,910 | 521,503 | 720,590 | 753,491 | 556,226 | 567,255 |

Source: ARMIS Report 43-07.

Table 10.1
Switching Data
BellSouth Companies

|  | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Local Switches | 1,658 | 1,647 | 1,650 | 1,654 | 1,653 | 1,649 | 1,644 | 1,642 | 1,637 | 1,629 | 1,625 |
| Tandems | 70 | 71 | 70 | 70 | 71 | 71 | 73 | 77 | 77 | 78 | 79 |
| Hosts | 280 | 289 | 297 | 317 | 307 | 306 | 297 | 304 | 305 | 295 | 295 |
| Remotes (Stand Alone Only) | 732 | 742 | 747 | 766 | 765 | 765 | 776 | 819 | 829 | 877 | 811 |
| Total Switches | 1,677 | 1,668 | 1,670 | 1,674 | 1,673 | 1,668 | 1,665 | 1,665 | 1,664 | 1,658 | 1,653 |
| Analog Stored Program Control | 182 | 158 | 130 | 106 | 100 | 83 | 69 | 54 | 44 | 41 | 39 |
| Digital Stored Program Control | 1,495 | 1,510 | 1,540 | 1,568 | 1,573 | 1,585 | 1,596 | 1,611 | 1,620 | 1,617 | 1,614 |
| Total Number Access Lines in Service (000) | 20,141 | 21,064 | 22,019 | 23,080 | 23,909 | 24,458 | 24,558 | 23,756 | 22,955 | 22,206 | 21,317 |
| Analog Stored Program Control Lines Served | 4,837 | 4,455 | 4,020 | 3,746 | 3,536 | 2,972 | 2,362 | 1,729 | 1,309 | 1,154 | 1,030 |
| Digital Stored Program Control Lines Served | 15,304 | 16,609 | 17,999 | 19,334 | 20,373 | 21,486 | 22,197 | 22,027 | 21,646 | 21,052 | 20,287 |
| Total Switches Equipped w/SS7-394 (InterLATA) Svc. | 1,627 | 1,629 | 1,652 | 1,674 | 1,673 | 1,668 | 1,665 | 1,665 | 1,664 | 1,658 | 1,653 |
| Total Switches Equipped with ISDN | 407 | 467 | 518 | 584 | 596 | 645 | 691 | 678 | 697 | 701 | 809 |
| Lines with Access to ISDN (000) | 9,708 | 10,988 | 12,948 | 14,894 | 15,980 | 17,413 | 18,396 | 17,660 | 17,457 | 16,927 | 17,536 |
| Basic Rate ISDN (BRI) Interfaces Equipped | 76,348 | 80,641 | 122,043 | 167,512 | 183,458 | 202,391 | 223,294 | 228,898 | 230,066 | 269,254 | 281,088 |
| Primary Rate ISDN (PRI) Interfaces Equipped | 3,534 | 4,803 | 9,154 | 21,389 | 33,564 | 51,669 | 72,347 | 85,983 | 81,328 | 81,682 | 86,399 |

Source: ARMIS Report 43-07.

Table 10.1
Switching Data
Qwest Companies

|  | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Local Switches | 1,738 | 1,641 | 1,521 | 1,441 | 1,446 | 1,428 | 1,400 | 1,354 | 1,337 | 1,322 | 1,323 |
| Tandems | 51 | 51 | 51 | 51 | 51 | 51 | 53 | 51 | 56 | 56 | 56 |
| Hosts | 232 | 238 | 248 | 249 | 253 | 251 | 245 | 231 | 226 | 217 | 219 |
| Remotes (Stand Alone Only) | 984 | 961 | 852 | 781 | 786 | 752 | 733 | 680 | 651 | 631 | 630 |
| Total Switches | 1,752 | 1,654 | 1,534 | 1,492 | 1,458 | 1,441 | 1,414 | 1,363 | 1,351 | 1,336 | 1,337 |
| Analog Stored Program Control | 213 | 188 | 146 | 113 | 95 | 71 | 20 | 1 | 1 | 0 | 0 |
| Digital Stored Program Control | 1,519 | 1,465 | 1,387 | 1,379 | 1,363 | 1,370 | 1,394 | 1,362 | 1,350 | 1,336 | 1,337 |
| Total Number Access Lines in Service (000) | 14,309 | 14,817 | 15,405 | 16,132 | 16,859 | 17,449 | 17,626 | 16,664 | 15,682 | 14,277 | 13,425 |
| Analog Stored Program Control Lines Served | 5,303 | 4,706 | 4,245 | 4,228 | 3,574 | 2,501 | 636 | 30 | 28 | 0 | 0 |
| Digital Stored Program Control Lines Served | 8,988 | 10,110 | 11,159 | 11,905 | 13,286 | 14,948 | 16,991 | 16,634 | 15,654 | 14,277 | 13,425 |
| Total Switches Equipped w/SS7-394 (InterLATA) Svc. | 819 | 1,116 | 1,143 | 1,305 | 1,346 | 1,350 | 1,340 | 1,311 | 1,311 | 1,312 | 1,315 |
| Total Switches Equipped with ISDN | 240 | 262 | 327 | 541 | 557 | 583 | 623 | 603 | 587 | 635 | 638 |
| Lines with Access to ISDN (000) | 5,045 | 6,192 | 9,668 | 10,264 | 11,189 | 12,522 | 14,611 | 14,082 | 13,153 | 12,575 | 11,806 |
| Basic Rate ISDN (BRI) Interfaces Equipped | 120,058 | 126,530 | 146,570 | 162,953 | 165,733 | 167,623 | 176,696 | 174,079 | 199,302 | 201,232 | 195,674 |
| Primary Rate ISDN (PRI) Interfaces Equipped | 742 | 2,315 | 2,734 | 4,329 | 4,867 | 6,112 | 7,822 | 11,046 | 61,993 | 65,672 | 67,908 |

Source: ARMIS Report 43-07.

Table 10.1
Switching Data
SBC Ameritech Companies

|  | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Local Switches | 1,413 | 1,415 | 1,410 | 1,435 | 1,419 | 1,432 | 1,447 | 1,451 | 1,455 | 1,439 | 1,436 |
| Tandems | 47 | 46 | 46 | 47 | 51 | 52 | 53 | 55 | 63 | 65 | 87 |
| Hosts | 236 | 238 | 236 | 243 | 236 | 234 | 234 | 235 | 236 | 236 | 236 |
| Remotes (Stand Alone Only) | 717 | 731 | 743 | 769 | 764 | 775 | 790 | 789 | 790 | 776 | 779 |
| Total Switches | 1,460 | 1,461 | 1,456 | 1,482 | 1,470 | 1,485 | 1,500 | 1,506 | 1,518 | 1,504 | 1,523 |
| Analog Stored Program Control | 119 | 97 | 71 | 58 | 46 | 39 | 37 | 34 | 24 | 16 | 8 |
| Digital Stored Program Control | 1,341 | 1,364 | 1,385 | 1,424 | 1,424 | 1,446 | 1,463 | 1,472 | 1,494 | 1,488 | 1,515 |
| Total Number Access Lines in Service (000) | 18,122 | 19,310 | 19,553 | 20,335 | 20,790 | 21,036 | 20,898 | 20,074 | 19,151 | 18,309 | 17,287 |
| Analog Stored Program Control Lines Served | 3,845 | 3,727 | 3,228 | 2,793 | 2,193 | 1,811 | 1,730 | 1,491 | 927 | 562 | 276 |
| Digital Stored Program Control Lines Served | 14,278 | 15,583 | 16,324 | 17,541 | 18,597 | 19,225 | 19,168 | 18,583 | 18,224 | 17,747 | 17,011 |
| Total Switches Equipped w/SS7-394 (InterLATA) Svc. | 1,254 | 1,400 | 1,438 | 1,463 | 1,451 | 1,476 | 1,492 | 1,496 | 1,504 | 1,504 | 1,523 |
| Total Switches Equipped with ISDN | 444 | 489 | 601 | 695 | 784 | 816 | 822 | 844 | 933 | 863 | 883 |
| Lines with Access to ISDN (000) | 10,259 | 12,860 | 13,802 | 15,464 | 16,804 | 17,472 | 17,388 | 16,814 | 16,810 | 16,160 | 15,531 |
| Basic Rate ISDN (BRI) Interfaces Equipped | 87,862 | 97,550 | 226,355 | 180,280 | 220,867 | 259,312 | 271,468 | 283,600 | 290,367 | 282,643 | 282,159 |
| Primary Rate ISDN (PRI) Interfaces Equipped | 1,505 | 1,677 | 4,247 | 14,569 | 24,800 | 38,037 | 53,926 | 70,542 | 75,184 | 75,766 | 79,519 |

Source: ARMIS Report 43-07.

Table 10.1
Switching Data

## SBC Pacific Telesis Companies

|  | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Local Switches | 837 | 840 | 833 | 810 | 801 | 799 | 778 | 781 | 779 | 779 | 778 |
| Tandems | 20 | 20 | 20 | 21 | 24 | 24 | 24 | 31 | 31 | 31 | 35 |
| Hosts | 121 | 117 | 114 | 135 | 121 | 116 | 189 | 114 | 114 | 116 | 116 |
| Remotes (Stand Alone Only) | 320 | 316 | 310 | 364 | 361 | 350 | 361 | 360 | 358 | 359 | 357 |
| Total Switches | 857 | 860 | 853 | 830 | 824 | 822 | 802 | 812 | 810 | 807 | 813 |
| Analog Stored Program Control | 109 | 87 | 72 | 49 | 38 | 17 | 0 | 0 | 0 | 0 | 0 |
| Digital Stored Program Control | 746 | 772 | 781 | 781 | 786 | 805 | 802 | 812 | 810 | 807 | 813 |
| Total Number Access Lines in Service (000) | 15,417 | 16,021 | 16,460 | 17,155 | 18,158 | 18,285 | 18,236 | 17,788 | 17,248 | 16,693 | 16,156 |
| Analog Stored Program Control Lines Served | 5,029 | 4,036 | 3,354 | 2,422 | 1,825 | 754 | 0 | 0 | 0 | 0 | 0 |
| Digital Stored Program Control Lines Served | 10,387 | 11,985 | 13,106 | 14,733 | 16,333 | 17,531 | 18,236 | 17,788 | 17,248 | 16,693 | 16,156 |
| Total Switches Equipped w/SS7-394 (InterLATA) Svc. | 764 | 772 | 794 | 791 | 803 | 796 | 778 | 812 | 810 | 807 | 813 |
| Total Switches Equipped with ISDN | 347 | 417 | 473 | 531 | 551 | 574 | 574 | 562 | 560 | 588 | 592 |
| Lines with Access to ISDN (000) | 8,494 | 10,291 | 11,895 | 13,632 | 15,134 | 16,529 | 17,589 | 16,966 | 16,427 | 16,251 | 15,759 |
| Basic Rate ISDN (BRI) Interfaces Equipped | 115,146 | 171,305 | 304,182 | 314,003 | 468,493 | 489,369 | 421,744 | 630,816 | 615,934 | 347,052 | 339,563 |
| Primary Rate ISDN (PRI) Interfaces Equipped | 708 | 3,491 | 13,448 | 20,125 | 31,345 | 47,794 | 49,712 | 94,742 | 54,902 | 34,378 | 34,926 |

Source: ARMIS Report 43-07.

Table 10.1
Switching Data
SBC Southern New England

|  | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Local Switches |  |  |  |  |  |  | 139 | 137 | 136 | 161 | 161 |
| Tandems |  |  |  |  |  |  | 6 | 1 | 6 | 7 | 7 |
| Hosts |  |  |  |  |  |  | 79 | 81 | 32 | 30 | 30 |
| Remotes (Stand Alone Only) |  |  |  |  |  |  | 71 | 56 | 73 | 82 | 82 |
| Total Switches |  |  |  |  |  |  | 139 | 137 | 136 | 165 | 168 |
| Analog Stored Program Control |  |  |  |  |  |  | 3 | 0 | 0 | 0 | 0 |
| Digital Stored Program Control |  |  |  |  |  |  | 136 | 137 | 136 | 165 | 168 |
| Total Number Access Lines in Service (000) |  |  |  |  |  |  | 2,450 | 2,334 | 2,258 | 2,173 | 2,069 |
| Analog Stored Program Control Lines Served |  |  |  |  |  |  | 125 | 0 | 0 | 0 | 0 |
| Digital Stored Program Control Lines Served |  |  |  |  |  |  | 2,325 | 2,334 | 2,258 | 2,173 | 2,069 |
| Total Switches Equipped w/SS7-394 (InterLATA) Svc. |  |  |  |  |  |  | 141 | 137 | 136 | 165 | 168 |
| Total Switches Equipped with ISDN |  |  |  |  |  |  | 74 | 101 | 137 | 103 | 107 |
| Lines with Access to ISDN (000) |  |  |  |  |  |  | 1,845 | 2,031 | 2,030 | 1,870 | 1,776 |
| Basic Rate ISDN (BRI) Interfaces Equipped |  |  |  |  |  |  | 40,569 | 38,423 | 43,254 | 51,076 | 51,138 |
| Primary Rate ISDN (PRI) Interfaces Equipped |  |  |  |  |  |  | 92,208 | 169,488 | 192,720 | 8,465 | 8,413 |

[^0]Table 10.1
Switching Data

## SBC Southwestern Bell Companies

|  | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Local Switches | 1,511 | 1,644 | 1,670 | 1,690 | 1,644 | 1,658 | 1,663 | 1,660 | 1,652 | 1,658 | 1,654 |
| Tandems | 60 | 60 | 60 | 60 | 67 | 56 | 69 | 70 | 70 | 71 | 68 |
| Hosts | 233 | 245 | 241 | 267 | 230 | 228 | 229 | 230 | 244 | 245 | 246 |
| Remotes (Stand Alone Only) | 779 | 935 | 1,077 | 1,077 | 1,158 | 1,163 | 1,152 | 1,150 | 1,150 | 1,101 | 1,093 |
| Total Switches | 1,539 | 1,679 | 1,730 | 1,750 | 1,711 | 1,727 | 1,715 | 1,716 | 1,722 | 1,728 | 1,722 |
| Analog Stored Program Control | 264 | 252 | 162 | 136 | 115 | 88 | 67 | 46 | 34 | 23 | 23 |
| Digital Stored Program Control | 1,202 | 1,369 | 1,568 | 1,614 | 1,596 | 1,639 | 1,648 | 1,670 | 1,688 | 1,705 | 1,699 |
| Total Number Access Lines in Service (000) | 13,611 | 14,095 | 14,104 | 15,306 | 15,872 | 16,287 | 16,411 | 15,842 | 15,294 | 14,670 | 13,912 |
| Analog Stored Program Control Lines Served | 6,608 | 6,531 | 5,657 | 5,055 | 4,119 | 3,107 | 2,246 | 1,448 | 963 | 652 | 615 |
| Digital Stored Program Control Lines Served | 6,907 | 7,502 | 8,447 | 10,251 | 11,753 | 13,180 | 14,165 | 14,394 | 14,331 | 14,018 | 13,297 |
| Total Switches Equipped w/SS7-394 (InterLATA) Svc. | 1,263 | 1,466 | 1,597 | 1,724 | 1,707 | 1,724 | 1,713 | 1,713 | 1,722 | 1,728 | 1,722 |
| Total Switches Equipped with ISDN | 123 | 303 | 331 | 331 | 360 | 428 | 441 | 461 | 472 | 479 | 498 |
| Lines with Access to ISDN (000) | 1,933 | 8,826 | 9,440 | 10,577 | 13,361 | 12,158 | 12,169 | 12,056 | 11,241 | 10,721 | 10,069 |
| Basic Rate ISDN (BRI) Interfaces Equipped | 57,041 | 108,784 | 104,604 | 185,018 | 225,427 | 267,190 | 281,459 | 310,326 | 308,501 | 309,907 | 309,172 |
| Primary Rate ISDN (PRI) Interfaces Equipped | 1,238 | 5,084 | 6,150 | 15,434 | 31,570 | 46,533 | 59,513 | 68,236 | 68,793 | 71,035 | 70,860 |

Source: ARMIS Report 43-07.

Table 10.1
Switching Data

## Verizon - Bell Atlantic Companies

|  | 1994 | 1995 | 1996 | 1998 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Local Switches | 2,705 | 2,696 | 2,684 | 2,616 | 2,616 | 2,636 | 2,634 | 2,622 | 2,623 | 2,628 | 2,639 |
| Tandems | 65 | 65 | 71 | 67 | 67 | 74 | 76 | 81 | 87 | 102 | 101 |
| Hosts | 358 | 371 | 367 | 369 | 369 | 381 | 386 | 382 | 464 | 375 | 371 |
| Remotes (Stand Alone Only) | 1,407 | 1,424 | 1,444 | 1,405 | 1,405 | 1,437 | 1,435 | 1,424 | 1,424 | 1,441 | 1,445 |
| Total Switches | 2,738 | 2,729 | 2,723 | 2,652 | 2,652 | 2,682 | 2,683 | 2,675 | 2,682 | 2,705 | 2,702 |
| Analog Stored Program Control | 246 | 194 | 137 | 37 | 37 | 16 | 7 | 4 | 4 | 4 | 3 |
| Digital Stored Program Control | 2,492 | 2,535 | 2,586 | 2,615 | 2,615 | 2,666 | 2,676 | 2,671 | 2,677 | 2,701 | 2,699 |
| Total Number Access Lines in Service (000) | 35,745 | 36,959 | 38,305 | 40,838 | 40,838 | 41,833 | 41,669 | 40,582 | 38,810 | 38,003 | 36,105 |
| Analog Stored Program Control Lines Served | 7,569 | 5,576 | 4,057 | 1,442 | 1,442 | 568 | 218 | 112 | 55 | 67 | 60 |
| Digital Stored Program Control Lines Served | 28,176 | 31,383 | 34,248 | 39,396 | 39,396 | 41,266 | 41,451 | 40,469 | 38,754 | 37,936 | 36,045 |
| Total Switches Equipped w/SS7-394 (InterLATA) Svc. | 2,381 | 2,577 | 2,650 | 2,641 | 2,641 | 2,671 | 2,672 | 2,664 | 2,682 | 2,704 | 2,700 |
| Total Switches Equipped with ISDN | 839 | 930 | 1,079 | 1,298 | 1,298 | 1,304 | 1,305 | 1,303 | 1,328 | 1,308 | 1,289 |
| Lines with Access to ISDN (000) | 21,107 | 22,117 | 27,682 | 34,367 | 34,367 | 36,336 | 36,825 | 35,636 | 34,012 | 32,010 | 30,667 |
| Basic Rate ISDN (BRI) Interfaces Equipped | 282,051 | 363,320 | 505,652 | 1,088,060 | 1,088,060 | 1,167,022 | 1,226,934 | 1,258,543 | 1,003,709 | 966,634 | 1,015,554 |
| Primary Rate ISDN (PRI) Interfaces Equipped | 6,393 | 12,507 | 24,775 | 71,983 | 71,983 | 97,177 | 123,323 | 150,029 | 149,282 | 151,276 | 149,131 |

Source: ARMIS Report 43-07.

Table 10.1 Switching Data

## Verizon - GTE Companies

|  | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Local Switches | 5,211 | 5,673 | 6,499 | 6,453 | 6,538 | 6,659 | 5,136 | 5,190 | 4,432 | 4,437 | 4,448 |
| Tandems | 129 | 145 | 166 | 165 | 162 | 164 | 150 | 151 | 136 | 134 | 135 |
| Hosts | 726 | 812 | 929 | 939 | 955 | 945 | 742 | 761 | 653 | 655 | 643 |
| Remotes (Stand Alone Only) | 1,512 | 1,793 | 1,925 | 1,960 | 2,738 | 2,861 | 2,088 | 2,134 | 2,108 | 2,115 | 2,115 |
| Total Switches | 5,228 | 5,689 | 6,520 | 6,483 | 6,604 | 6,691 | 5,174 | 5,235 | 4,470 | 4,473 | 4,481 |
| Analog Stored Program Control | 46 | 26 | 17 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Digital Stored Program Control | 4,343 | 5,040 | 6,109 | 6,305 | 6,604 | 6,691 | 5,174 | 5,235 | 4,470 | 4,473 | 4,481 |
| Total Number Access Lines in Service (000) | 15,076 | 15,878 | 17,393 | 18,321 | 19,105 | 20,015 | 18,709 | 18,503 | 16,894 | 16,366 | 15,785 |
| Analog Stored Program Control Lines Served | 508 | 378 | 242 | 197 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Digital Stored Program Control Lines Served | 13,819 | 14,998 | 16,866 | 17,966 | 19,105 | 20,015 | 18,709 | 18,503 | 16,894 | 16,366 | 15,785 |
| Total Switches Equipped w/SS7-394 (InterLATA) Svc. | 2,087 | 2,782 | 3,897 | 4,215 | 5,527 | 6,309 | 5,021 | 5,156 | 4,429 | 4,464 | 4,472 |
| Total Switches Equipped with ISDN | 268 | 388 | 523 | 779 | 1,246 | 1,385 | 884 | 913 | 950 | 974 | 971 |
| Lines with Access to ISDN (000) | 4,972 | 6,218 | 9,678 | 10,619 | 14,574 | 14,926 | 14,064 | 13,830 | 13,320 | 12,908 | 12,418 |
| Basic Rate ISDN (BRI) Interfaces Equipped | 62,458 | 90,772 | 98,145 | 126,946 | 139,471 | 167,964 | 173,507 | 173,220 | 169,320 | 163,107 | 163,005 |
| Primary Rate ISDN (PRI) Interfaces Equipped | 1,406 | 2,703 | 7,377 | 16,465 | 36,386 | 47,588 | 62,652 | 70,524 | 69,289 | 67,952 | 70,099 |

Source: ARMIS Report 43-07.

Table 10.2

## Transmission System Data

Total - All Companies

|  | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sheath Kilometers: |  |  |  |  |  |  |  |  |  |  |  |
| Total Sheath Kilometers | 5,396,684 | 5,440,947 | 5,581,057 | 5,664,315 | 5,763,419 | 5,846,319 | 5,761,869 | 5,848,516 | 5,791,105 | 5,851,790 | 5,942,045 |
| Copper | 5,029,164 | 5,028,941 | 5,125,753 | 5,163,039 | 5,212,873 | 5,255,778 | 5,132,364 | 5,166,537 | 5,086,669 | 5,118,314 | 5,166,481 |
| Fiber | 359,887 | 404,891 | 448,098 | 495,380 | 536,520 | 576,868 | 613,646 | 665,805 | 692,031 | 720,877 | 763,132 |
| Other | 7,633 | 7,116 | 7,207 | 5,896 | 14,026 | 13,672 | 15,860 | 16,174 | 12,406 | 12,600 | 12,433 |
| Interoffice Working Facilities: |  |  |  |  |  |  |  |  |  |  |  |
| Total Circuit Links | 23,148,333 | 25,297,979 | 24,244,165 | 28,847,081 | 32,231,481 | 41,879,877 | 48,661,944 | 52,923,180 | 52,949,635 | 52,112,866 | 50,950,480 |
| Loop Plant -- Central Office Terminations: |  |  |  |  |  |  |  |  |  |  |  |
| Total Equipped Channels | 249,649,715 | 258,253,080 | 268,251,039 | 264,429,362 | 291,636,650 | 316,611,286 | 334,896,812 | 358,698,149 | 312,233,882 | 297,583,679 | 300,300,134 |
| Copper | 220,135,875 | 225,175,050 | 227,713,136 | 230,903,175 | 239,252,059 | 242,631,789 | 248,907,611 | 252,260,939 | 244,927,670 | 238,212,199 | 234,120,897 |
| Fiber Digital Carrier | 29,507,696 | 33,071,868 | 40,533,114 | 33,515,370 | 52,379,288 | 73,974,959 | 85,985,244 | 106,433,399 | 67,303,642 | 59,370,412 | 66,179,010 |
| Other | 6,144 | 6,162 | 4,789 | 10,817 | 5,303 | 4,538 | 3,957 | 3,811 | 2,570 | 1,068 | 227 |
| Total Working Channels | 147,195,693 | 152,380,602 | 161,508,833 | 170,083,120 | 194,840,965 | 207,743,891 | 218,927,639 | 227,878,106 | 169,157,091 | 155,978,400 | 148,255,276 |
| Copper | 135,381,925 | 139,111,176 | 144,505,778 | 147,286,389 | 154,355,633 | 154,646,229 | 157,839,973 | 152,364,455 | 137,228,369 | 127,261,709 | 117,320,498 |
| Fiber Digital Carrier | 11,810,830 | 13,266,569 | 17,000,345 | 22,793,636 | 40,483,024 | 52,850,716 | 61,085,767 | 75,512,132 | 31,927,283 | 28,716,169 | 30,934,695 |
| Other | 2,940 | 2,857 | 2,710 | 3,095 | 2,308 | 246,946 | 1,899 | 1,519 | 1,439 | 522 | 83 |
| Other Transmission Facility Data: |  |  |  |  |  |  |  |  |  |  |  |
| Copper Pairs Term Main Frame (Loop Plant Only) | 208,473,679 | 211,518,359 | 213,009,375 | 215,534,261 | 218,990,613 | 218,470,177 | 221,252,639 | 238,862,029 | 242,252,929 | 242,520,915 | 240,835,374 |
| Fiber Strands Term in the CO (Loop Plant Only) | 650,573 | 1,102,517 | 1,365,991 | 1,651,999 | 1,946,608 | 2,005,074 | 2,350,285 | 2,744,584 | 3,098,223 | 2,705,122 | 2,819,962 |
| Fiber Term at Customer Premises DS1 Rate | 163,017 | 206,572 | 269,767 | 363,189 | 506,572 | 629,237 | 876,058 | 1,290,658 | 1,325,187 | 1,710,437 | 1,837,473 |
| Fiber Term at Customer Premises DS3 Rate \& Higher | 16,139 | 18,773 | 31,304 | 29,893 | 56,208 | 105,420 | 190,106 | 232,430 | 212,277 | 265,280 | 296,659 |
| ISDN Capable Lines | NA | NA | NA | 105,949,659 | 107,514,215 | 123,018,845 | 117,157,253 | 105,443,488 | 106,355,653 | 96,011,618 | 86,074,376 |

NA: Not available
Source: ARMIS Report 43-07.

Table 10.2
Transmission System Data
BellSouth Companies

|  | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sheath Kilometers: |  |  |  |  |  |  |  |  |  |  |  |
| Total Sheath Kilometers | 1,005,397 | 1,020,809 | 1,034,601 | 1,050,186 | 1,074,896 | 1,094,569 | 1,115,897 | 1,134,363 | 1,145,506 | 1,155,144 | 1,170,351 |
| Copper | 930,812 | 937,626 | 943,090 | 951,758 | 965,108 | 973,995 | 983,221 | 989,541 | 992,446 | 994,980 | 1,000,413 |
| Fiber | 73,370 | 82,012 | 90,093 | 96,852 | 105,335 | 116,507 | 129,209 | 141,356 | 149,609 | 156,707 | 166,476 |
| Other | 1,215 | 1,171 | 1,418 | 1,576 | 4,453 | 4,067 | 3,466 | 3,466 | 3,452 | 3,457 | 3,462 |
| Interoffice Working Facilities: |  |  |  |  |  |  |  |  |  |  |  |
| Total Circuit Links | 4,287,654 | 4,756,430 | 5,245,925 | 6,107,816 | 6,134,728 | 8,564,658 | 9,828,726 | 10,690,256 | 10,835,682 | 10,539,995 | 10,306,408 |
| Loop Plant -- Central Office Terminations: |  |  |  |  |  |  |  |  |  |  |  |
| Total Equipped Channels | 34,669,704 | 36,022,283 | 37,866,890 | 39,550,588 | 40,957,871 | 42,025,575 | 38,493,186 | 39,191,848 | 39,822,163 | 39,957,594 | 40,455,852 |
| Copper | 29,995,720 | 30,351,794 | 30,903,216 | 31,270,774 | 31,917,878 | 31,849,537 | 31,600,665 | 31,708,156 | 30,263,142 | 30,684,759 | 29,089,610 |
| Fiber Digital Carrier | 4,673,140 | 5,669,647 | 6,962,832 | 8,278,972 | 9,039,151 | 10,175,104 | 6,891,115 | 7,481,596 | 9,557,876 | 9,272,835 | 11,366,242 |
| Other | 842 | 842 | 842 | 842 | 842 | 934 | 1,406 | 2,096 | 1,145 | 0 | 0 |
| Total Working Channels | 23,284,636 | 24,682,894 | 26,230,400 | 27,921,162 | 29,836,968 | 30,422,706 | 26,262,694 | 25,989,359 | 25,039,974 | 24,334,185 | 23,426,354 |
| Copper | 19,283,574 | 19,871,262 | 20,318,019 | 20,708,890 | 21,233,672 | 21,237,643 | 20,311,329 | 19,664,164 | 17,250,216 | 16,854,022 | 14,456,834 |
| Fiber Digital Carrier | 4,000,986 | 4,811,550 | 5,912,292 | 7,212,190 | 8,603,214 | 9,184,935 | 5,950,949 | 6,324,563 | 7,789,007 | 7,480,163 | 8,969,520 |
| Other | 77 | 82 | 89 | 82 | 82 | 128 | 416 | 632 | 751 | 0 | 0 |
| Other Transmission Facility Data: |  |  |  |  |  |  |  |  |  |  |  |
| Copper Pairs Term Main Frame (Loop Plant Only) | 26,451,200 | 26,527,293 | 26,342,776 | 26,703,438 | 27,082,625 | 26,602,864 | 31,771,617 | 48,789,643 | 49,853,210 | 51,027,738 | 52,265,386 |
| Fiber Strands Term in the CO (Loop Plant Only) | 73,260 | 106,710 | 138,364 | 157,957 | 185,416 | 205,840 | 226,360 | 248,433 | 310,092 | 322,590 | 351,606 |
| Fiber Term at Customer Premises DS1 Rate | 13,941 | 19,132 | 27,482 | 36,911 | 50,431 | 67,886 | 85,205 | 93,687 | 593,755 | 448,233 | 474,787 |
| Fiber Term at Customer Premises DS3 Rate \& Higher | 4,034 | 4,559 | 5,353 | 6,847 | 8,974 | 35,492 | 94,022 | 107,998 | 112,931 | 121,680 | 129,894 |
| ISDN Capable Lines | NA | NA | NA | 25,918,582 | 15,841,265 | 13,049,642 | 13,111,821 | 12,636,844 | 16,230,309 | 16,065,806 | 15,764,831 |

NA: Not available
Source: ARMIS Report 43-07.

Table 10.2

## Transmission System Data

Qwest Companies

|  | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sheath Kilometers: |  |  |  |  |  |  |  |  |  |  |  |
| Total Sheath Kilometers | 750,756 | 753,942 | 722,753 | 717,084 | 722,157 | 735,920 | 754,162 | 762,412 | 770,660 | 779,623 | 789,965 |
| Copper | 694,797 | 691,844 | 660,393 | 653,205 | 650,929 | 662,816 | 675,009 | 676,615 | 684,193 | 690,414 | 698,213 |
| Fiber | 55,960 | 62,098 | 62,360 | 63,880 | 65,171 | 66,986 | 69,906 | 76,585 | 80,891 | 83,638 | 86,182 |
| Other | 0 | 0 | 0 | 0 | 6,057 | 6,119 | 9,247 | 9,212 | 5,576 | 5,570 | 5,570 |
| Interoffice Working Facilities: |  |  |  |  |  |  |  |  |  |  |  |
| Total Circuit Links | 2,569,216 | 2,802,203 | 3,178,552 | 3,561,748 | 4,129,315 | 5,232,282 | 6,152,970 | 6,926,823 | 7,018,987 | 6,746,390 | 6,521,359 |
| Loop Plant -- Central Office Terminations: |  |  |  |  |  |  |  |  |  |  |  |
| Total Equipped Channels | 24,088,839 | 24,246,870 | 25,284,411 | 24,893,900 | 27,316,968 | 28,023,288 | 28,733,473 | 29,643,140 | 30,106,628 | 30,149,357 | 30,250,683 |
| Copper | 23,393,955 | 23,561,093 | 23,500,796 | 23,193,518 | 25,517,759 | 25,361,821 | 25,581,184 | 25,939,651 | 26,077,832 | 25,727,523 | 25,542,477 |
| Fiber Digital Carrier | 694,588 | 685,674 | 1,782,962 | 1,699,888 | 1,799,003 | 2,661,211 | 3,152,009 | 3,703,244 | 4,028,568 | 4,421,607 | 4,707,979 |
| Other | 296 | 103 | 653 | 494 | 206 | 256 | 280 | 245 | 228 | 227 | 227 |
| Total Working Channels | 15,322,355 | 15,347,150 | 16,359,345 | 17,195,446 | 17,455,809 | 18,011,061 | 18,009,155 | 17,058,921 | 16,260,389 | 15,607,156 | 15,038,312 |
| Copper | 14,863,489 | 14,873,448 | 15,232,212 | 16,113,600 | 16,222,185 | 16,270,241 | 15,887,131 | 14,607,962 | 14,400,788 | 13,625,667 | 12,996,038 |
| Fiber Digital Carrier | 458,790 | 473,650 | 1,126,650 | 1,081,695 | 1,233,523 | 1,740,715 | 2,121,920 | 2,450,864 | 1,859,511 | 1,981,407 | 2,042,191 |
| Other | 76 | 52 | 483 | 151 | 101 | 105 | 104 | 95 | 90 | 82 | 83 |
| Other Transmission Facility Data: |  |  |  |  |  |  |  |  |  |  |  |
| Copper Pairs Term Main Frame (Loop Plant Only) | 22,179,411 | 22,168,426 | 22,291,697 | 20,463,591 | 21,558,602 | 21,606,866 | 21,572,942 | 21,653,395 | 21,724,140 | 22,858,456 | 22,907,836 |
| Fiber Strands Term in the CO (Loop Plant Only) | 83,313 | 81,953 | 112,185 | 123,691 | 174,430 | 202,329 | 238,802 | 299,315 | 309,154 | 316,793 | 322,781 |
| Fiber Term at Customer Premises DS1 Rate | 24,386 | 28,875 | 30,109 | 46,296 | 91,105 | 136,878 | 267,251 | 316,665 | 349,948 | 370,416 | 390,835 |
| Fiber Term at Customer Premises DS3 Rate \& Higher | 1,297 | 1,289 | 1,223 | 1,142 | 6,085 | 28,354 | 38,224 | 51,546 | 60,366 | 63,678 | 66,830 |
| ISDN Capable Lines | NA | NA | NA | 9,236,841 | 9,650,185 | 9,983,398 | 9,922,088 | 9,012,052 | 8,426,381 | 7,591,314 | 7,191,782 |

NA: Not available
Source: ARMIS Report 43-07.

Table 10.2
Transmission System Data
SBC Ameritech Companies

|  | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sheath Kilometers: |  |  |  |  |  |  |  |  |  |  |  |
| Total Sheath Kilometers | 537,133 | 562,934 | 575,407 | 586,712 | 598,858 | 601,779 | 612,988 | 629,321 | 636,725 | 642,674 | 652,737 |
| Copper | 498,239 | 519,775 | 526,955 | 533,491 | 541,197 | 540,170 | 546,336 | 555,024 | 558,670 | 562,163 | 570,185 |
| Fiber | 37,980 | 42,370 | 47,676 | 52,450 | 56,687 | 60,637 | 65,632 | 73,334 | 77,084 | 79,541 | 81,711 |
| Other | 915 | 789 | 776 | 771 | 974 | 972 | 1,020 | 964 | 971 | 970 | 842 |
| Interoffice Working Facilities: |  |  |  |  |  |  |  |  |  |  |  |
| Total Circuit Links | 2,964,296 | 3,278,058 | 3,577,253 | 4,118,183 | 4,912,927 | 5,990,907 | 6,753,643 | 7,625,684 | 8,084,023 | 7,633,513 | 7,372,538 |
| Loop Plant -- Central Office Terminations: |  |  |  |  |  |  |  |  |  |  |  |
| Total Equipped Channels | 31,847,802 | 31,957,236 | 33,365,840 | 34,740,814 | 36,301,862 | 37,842,246 | 39,092,223 | 40,436,388 | 42,145,712 | 38,326,987 | 38,922,520 |
| Copper | 29,482,850 | 29,124,886 | 29,571,017 | 29,797,059 | 30,063,619 | 30,255,769 | 30,775,153 | 30,444,126 | 30,690,174 | 34,469,562 | 34,918,499 |
| Fiber Digital Carrier | 2,364,952 | 2,832,350 | 3,794,823 | 4,943,755 | 6,238,243 | 7,586,477 | 8,317,070 | 9,992,262 | 11,455,538 | 3,857,425 | 4,004,021 |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Working Channels | 19,105,653 | 19,714,345 | 20,506,219 | 21,152,075 | 21,782,557 | 22,227,572 | 22,495,633 | 21,786,411 | 20,997,868 | 20,239,795 | 19,291,809 |
| Copper | 18,096,153 | 18,478,770 | 18,896,376 | 19,082,995 | 19,216,231 | 19,135,507 | 18,993,978 | 18,124,703 | 17,272,552 | 18,147,879 | 17,221,055 |
| Fiber Digital Carrier | 1,009,500 | 1,235,575 | 1,609,843 | 2,069,080 | 2,566,326 | 3,092,065 | 3,501,655 | 3,661,708 | 3,725,316 | 2,091,916 | 2,070,754 |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other Transmission Facility Data: |  |  |  |  |  |  |  |  |  |  |  |
| Copper Pairs Term Main Frame (Loop Plant Only) | 28,645,733 | 28,217,638 | 28,693,470 | 28,970,660 | 29,303,138 | 29,605,539 | 30,212,004 | 29,938,625 | 30,208,945 | 30,632,552 | 30,761,065 |
| Fiber Strands Term in the CO (Loop Plant Only) | 66,035 | 79,661 | 103,648 | 123,302 | 141,621 | 165,171 | 205,342 | 275,069 | 300,927 | 248,340 | 265,087 |
| Fiber Term at Customer Premises DS1 Rate | 26,660 | 31,941 | 39,124 | 46,366 | 53,506 | 62,090 | 78,822 | 106,984 | 118,927 | 318,417 | 345,032 |
| Fiber Term at Customer Premises DS3 Rate \& Higher | 2,755 | 3,192 | 3,874 | 4,453 | 5,145 | 5,788 | 7,188 | 9,583 | 10,810 | 26,849 | 35,916 |
| ISDN Capable Lines | NA | NA | NA | 9,339,241 | 9,476,166 | 9,499,034 | 9,469,137 | 9,054,353 | 8,618,397 | 8,050,722 | 7,567,384 |

NA: Not available
Source: ARMIS Report 43-07.

Table 10.2
Transmission System Data SBC Pacific Telesis Companies

|  | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sheath Kilometers: |  |  |  |  |  |  |  |  |  |  |  |
| Total Sheath Kilometers | 343,658 | 346,127 | 349,697 | 363,726 | 368,122 | 363,304 | 386,093 | 394,058 | 382,326 | 394,103 | 410,545 |
| Copper | 324,942 | 325,537 | 327,040 | 339,207 | 341,563 | 334,493 | 355,133 | 359,288 | 343,317 | 352,331 | 365,700 |
| Fiber | 17,598 | 19,472 | 21,513 | 23,375 | 25,416 | 27,648 | 29,797 | 33,227 | 37,466 | 40,279 | 43,342 |
| Other | 1,118 | 1,118 | 1,144 | 1,144 | 1,144 | 1,163 | 1,163 | 1,543 | 1,543 | 1,493 | 1,503 |
| Interoffice Working Facilities: |  |  |  |  |  |  |  |  |  |  |  |
| Total Circuit Links | 2,568,706 | 2,646,904 | 2,240,779 | 3,369,967 | 3,760,855 | 4,352,282 | 5,032,433 | 5,141,975 | 4,792,666 | 4,649,070 | 4,410,421 |
| Loop Plant -- Central Office Terminations: |  |  |  |  |  |  |  |  |  |  |  |
| Total Equipped Channels | 26,447,355 | 26,850,298 | 27,732,011 | 28,635,080 | 29,739,661 | 30,729,411 | 33,317,471 | 34,687,259 | 34,988,223 | 31,628,755 | 32,005,987 |
| Copper | 25,914,609 | 26,178,875 | 26,951,967 | 27,548,645 | 28,348,883 | 29,062,676 | 31,479,491 | 32,170,875 | 32,337,338 | 30,161,010 | 30,398,583 |
| Fiber Digital Carrier | 532,661 | 671,162 | 779,783 | 1,086,411 | 1,390,754 | 1,666,523 | 1,837,699 | 2,516,055 | 2,650,609 | 1,467,745 | 1,607,404 |
| Other | 85 | 261 | 261 | 24 | 24 | 212 | 281 | 329 | 276 | 0 | 0 |
| Total Working Channels | 16,110,206 | 16,877,850 | 17,719,765 | 18,254,128 | 20,103,518 | 20,963,786 | 23,081,376 | 22,773,561 | 22,080,915 | 17,868,331 | 17,311,070 |
| Copper | 15,758,760 | 16,448,199 | 17,212,991 | 17,569,012 | 19,235,044 | 19,936,233 | 21,930,468 | 21,380,638 | 20,803,417 | 17,070,393 | 16,430,928 |
| Fiber Digital Carrier | 351,364 | 429,536 | 506,657 | 685,092 | 868,450 | 1,027,425 | 1,150,752 | 1,392,728 | 1,277,338 | 797,938 | 880,142 |
| Other | 82 | 115 | 117 | 24 | 24 | 128 | 156 | 195 | 160 | 0 | 0 |
| Other Transmission Facility Data: |  |  |  |  |  |  |  |  |  |  |  |
| Copper Pairs Term Main Frame (Loop Plant Only) | 24,577,002 | 24,619,462 | 25,055,625 | 25,412,880 | 25,953,289 | 26,639,408 | 27,102,231 | 27,403,873 | 27,620,878 | 27,668,068 | 27,754,848 |
| Fiber Strands Term in the CO (Loop Plant Only) | 33,538 | 34,692 | 37,156 | 88,192 | 97,385 | 101,516 | 115,670 | 139,598 | 182,250 | 49,626 | 51,419 |
| Fiber Term at Customer Premises DS1 Rate | 756 | 655 | 719 | 762 | 854 | 894 | 0 | 0 | 0 | 244,193 | 265,797 |
| Fiber Term at Customer Premises DS3 Rate \& Higher | 3,108 | 4,047 | 3,113 | 6,145 | 7,432 | 9,456 | 13,132 | 16,805 | 19,925 | 23,252 | 29,988 |
| ISDN Capable Lines | NA | NA | NA | 12,803,002 | 14,007,670 | 14,466,224 | 15,930,217 | 14,563,646 | 15,240,270 | 8,870,683 | 8,272,400 |

NA: Not available
Source: ARMIS Report 43-07.

Table 10.2
Transmission System Data SBC Southern New England Tel.

|  | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sheath Kilometers: |  |  |  |  |  |  |  |  |  |  |  |
| Total Sheath Kilometers |  |  |  |  |  |  | 78,301 | 78,634 | 79,230 | 77,061 | 77,869 |
| Copper |  |  |  |  |  |  | 68,830 | 68,582 | 68,786 | 66,119 | 66,717 |
| Fiber |  |  |  |  |  |  | 9,471 | 10,052 | 10,444 | 10,810 | 11,076 |
| Other |  |  |  |  |  |  | 0 | 0 | 0 | 132 | 76 |
| Interoffice Working Facilities: |  |  |  |  |  |  |  |  |  |  |  |
| Total Circuit Links |  |  |  |  |  |  | 700,958 | 701,243 | 720,401 | 843,381 | 781,235 |
| Loop Plant -- Central Office Terminations: |  |  |  |  |  |  |  |  |  |  |  |
| Total Equipped Channels |  |  |  |  |  |  | 4,303,654 | 4,719,268 | 4,627,977 | 4,747,002 | 4,841,846 |
| Copper |  |  |  |  |  |  | 3,810,896 | 3,991,935 | 4,018,081 | 4,009,459 | 4,042,100 |
| Fiber Digital Carrier |  |  |  |  |  |  | 492,758 | 727,333 | 609,896 | 737,543 | 799,746 |
| Other |  |  |  |  |  |  | 0 | 0 | 0 | 0 | 0 |
| Total Working Channels |  |  |  |  |  |  | 2,491,272 | 2,551,112 | 2,540,750 | 2,296,050 | 2,193,809 |
| Copper |  |  |  |  |  |  | 2,129,625 | 2,064,154 | 2,140,299 | 1,876,364 | 1,768,509 |
| Fiber Digital Carrier |  |  |  |  |  |  | 361,647 | 486,958 | 400,451 | 419,686 | 425,300 |
| Other |  |  |  |  |  |  | 0 | 0 | 0 | 0 | 0 |
| Other Transmission Facility Data: |  |  |  |  |  |  |  |  |  |  |  |
| Copper Pairs Term Main Frame (Loop Plant Only) |  |  |  |  |  |  | 3,810,896 | 4,108,736 | 3,892,983 | 3,860,982 | 3,869,497 |
| Fiber Strands Term in the CO (Loop Plant Only) |  |  |  |  |  |  | 40,777 | 60,062 | 89,466 | 24,006 | 26,986 |
| Fiber Term at Customer Premises DS1 Rate |  |  |  |  |  |  | 0 | 0 | 67,790 | 33,818 | 31,586 |
| Fiber Term at Customer Premises DS3 Rate \& Higher |  |  |  |  |  |  | 0 | 0 | 0 | 6,182 | 4,092 |
| ISDN Capable Lines |  |  |  |  |  |  | 317,994 | 384,431 | 398,824 | 1,049,395 | 990,236 |

NA: Not available
Source: ARMIS Report 43-07.

Table 10.2
Transmission System Data SBC Southwestern Bell Companies

|  | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sheath Kilometers: |  |  |  |  |  |  |  |  |  |  |  |
| Total Sheath Kilometers | 652,224 | 662,108 | 676,945 | 685,526 | 700,914 | 715,915 | 734,982 | 749,279 | 758,096 | 768,714 | 777,213 |
| Copper | 609,725 | 612,764 | 617,776 | 622,960 | 634,236 | 645,280 | 657,915 | 665,754 | 671,033 | 678,357 | 684,030 |
| Fiber | 40,621 | 47,530 | 57,228 | 60,561 | 66,074 | 70,023 | 76,442 | 82,893 | 86,431 | 89,725 | 92,549 |
| Other | 1,878 | 1,814 | 1,942 | 2,005 | 604 | 612 | 625 | 632 | 632 | 632 | 634 |
| Interoffice Working Facilities: |  |  |  |  |  |  |  |  |  |  |  |
| Total Circuit Links | 2,271,891 | 2,583,685 | 2,887,611 | 3,374,225 | 4,013,947 | 5,040,973 | 5,747,378 | 6,133,750 | 6,011,924 | 6,248,497 | 6,238,881 |
| Loop Plant -- Central Office Terminations: |  |  |  |  |  |  |  |  |  |  |  |
| Total Equipped Channels | 23,675,325 | 23,990,229 | 23,765,557 | 26,003,155 | 26,573,984 | 27,781,986 | 28,466,090 | 33,579,340 | 35,090,790 | 30,806,704 | 31,676,407 |
| Copper | 22,010,813 | 23,356,682 | 22,976,132 | 24,957,200 | 25,399,685 | 26,437,109 | 27,047,348 | 30,533,897 | 31,634,863 | 26,115,730 | 26,629,079 |
| Fiber Digital Carrier | 1,664,422 | 633,547 | 789,425 | 1,045,955 | 1,174,299 | 1,344,877 | 1,418,742 | 3,045,443 | 3,455,927 | 4,690,974 | 5,047,328 |
| Other | 90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Working Channels | 15,446,486 | 15,917,610 | 16,579,937 | 16,305,661 | 17,626,797 | 17,857,937 | 18,053,445 | 16,482,996 | 15,888,373 | 15,236,915 | 14,528,841 |
| Copper | 14,046,786 | 15,376,311 | 15,937,288 | 15,532,286 | 16,738,819 | 16,854,720 | 16,970,439 | 15,386,074 | 14,767,650 | 12,653,096 | 11,827,658 |
| Fiber Digital Carrier | 1,399,626 | 541,299 | 642,649 | 773,375 | 887,978 | 1,003,217 | 1,083,006 | 1,096,922 | 1,120,723 | 2,583,819 | 2,701,183 |
| Other | 74 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other Transmission Facility Data: |  |  |  |  |  |  |  |  |  |  |  |
| Copper Pairs Term Main Frame (Loop Plant Only) | 22,010,903 | 21,990,829 | 22,185,268 | 22,926,817 | 22,904,300 | 23,579,244 | 24,032,521 | 24,062,333 | 24,290,865 | 24,407,172 | 24,749,958 |
| Fiber Strands Term in the CO (Loop Plant Only) | 66,497 | 124,026 | 189,365 | 193,409 | 206,178 | 158,881 | 256,736 | 329,584 | 388,011 | 161,950 | 172,172 |
| Fiber Term at Customer Premises DS1 Rate | 44,622 | 48,552 | 77,598 | 77,545 | 113,701 | 103,739 | 130,287 | 160,740 | 172,872 | 273,498 | 307,114 |
| Fiber Term at Customer Premises DS3 Rate \& Higher | 2,566 | 2,733 | 4,365 | 5,039 | 5,615 | 1,995 | 3,668 | 4,523 | 4,828 | 20,354 | 26,529 |
| ISDN Capable Lines | NA | NA | NA | 3,773,275 | 4,157,674 | 12,158,269 | 12,168,819 | 12,055,812 | 11,177,094 | 4,981,445 | 4,680,190 |

NA: Not available
Source: ARMIS Report 43-07.

Table 10.2
Transmission System Data Verizon - Bell Atlantic Companies

|  | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sheath Kilometers: |  |  |  |  |  |  |  |  |  |  |  |
| Total Sheath Kilometers | 958,275 | 967,084 | 973,148 | 992,970 | 1,008,405 | 1,022,395 | 1,038,094 | 1,046,999 | 1,080,551 | 1,088,452 | 1,095,801 |
| Copper | 877,352 | 875,728 | 872,797 | 873,583 | 876,739 | 879,768 | 886,323 | 886,147 | 912,134 | 914,932 | 917,525 |
| Fiber | 78,415 | 89,132 | 98,425 | 118,987 | 130,872 | 141,888 | 151,432 | 160,494 | 168,185 | 173,174 | 177,930 |
| Other | 2,507 | 2,224 | 1,927 | 401 | 794 | 739 | 339 | 357 | 232 | 346 | 346 |
| Interoffice Working Facilities: |  |  |  |  |  |  |  |  |  |  |  |
| Total Circuit Links | 5,159,173 | 5,201,204 | 5,213,347 | 5,853,744 | 6,834,238 | 8,693,801 | 10,262,940 | 11,001,835 | 11,120,804 | 11,201,109 | 11,045,592 |
| Loop Plant -- Central Office Terminations: |  |  |  |  |  |  |  |  |  |  |  |
| Total Equipped Channels | 82,980,954 | 86,021,165 | 90,107,803 | 80,327,245 | 99,291,295 | 107,609,086 | 118,262,278 | 132,282,141 | 83,370,102 | 81,140,923 | 83,703,872 |
| Copper | 65,122,822 | 65,275,522 | 65,663,036 | 66,426,101 | 69,763,421 | 69,783,996 | 70,380,468 | 71,028,549 | 65,274,338 | 64,992,904 | 65,921,886 |
| Fiber Digital Carrier | 17,858,134 | 20,745,643 | 24,444,767 | 13,901,144 | 29,527,874 | 37,825,090 | 47,881,810 | 61,253,592 | 18,095,764 | 16,148,019 | 17,781,986 |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Working Channels | 40,222,933 | 40,922,175 | 43,690,966 | 48,600,177 | 66,109,986 | 74,269,449 | 84,300,998 | 97,520,356 | 44,619,456 | 40,052,063 | 38,588,203 |
| Copper | 36,776,495 | 36,387,944 | 37,927,283 | 39,429,529 | 41,983,369 | 43,003,921 | 43,790,217 | 43,770,856 | 34,803,810 | 32,820,501 | 31,437,854 |
| Fiber Digital Carrier | 3,446,439 | 4,534,231 | 5,763,683 | 9,170,648 | 24,126,617 | 31,265,528 | 40,510,781 | 53,749,500 | 9,815,646 | 7,231,562 | 7,150,349 |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other Transmission Facility Data: |  |  |  |  |  |  |  |  |  |  |  |
| Copper Pairs Term Main Frame (Loop Plant Only) | 60,557,866 | 60,577,213 | 60,635,648 | 61,342,895 | 61,875,146 | 61,342,016 | 60,962,933 | 60,979,463 | 62,622,453 | 62,718,766 | 63,581,514 |
| Fiber Strands Term in the CO (Loop Plant Only) | 273,279 | 604,501 | 704,901 | 872,210 | 1,014,974 | 1,127,598 | 1,227,204 | 1,359,225 | 1,487,203 | 1,552,120 | 1,601,097 |
| Fiber Term at Customer Premises DS1 Rate | 47,833 | 65,929 | 78,266 | 131,829 | 192,129 | 246,434 | 314,204 | 612,368 | 21,723 | 21,693 | 22,149 |
| Fiber Term at Customer Premises DS3 Rate \& Higher | 1,306 | 1,767 | 2,333 | 4,094 | 18,518 | 24,111 | 32,912 | 40,995 | 2,778 | 2,715 | 2,639 |
| ISDN Capable Lines | NA | NA | NA | 31,943,090 | 40,648,786 | 47,596,665 | 38,205,741 | 35,587,450 | 34,658,178 | 33,659,351 | 31,478,816 |

NA: Not available
Source: ARMIS Report 43-07.

Table 10.2

## Transmission System Data

Verizon-GTE Companies

|  | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sheath Kilometers: |  |  |  |  |  |  |  |  |  |  |  |
| Total Sheath Kilometers | 1,149,241 | 1,127,943 | 1,248,505 | 1,268,110 | 1,290,068 | 1,312,437 | 1,041,353 | 1,053,450 | 938,012 | 946,019 | 967,564 |
| Copper | 1,093,297 | 1,065,667 | 1,177,702 | 1,188,835 | 1,203,101 | 1,219,257 | 959,596 | 965,586 | 856,090 | 859,017 | 863,698 |
| Fiber | 55,944 | 62,276 | 70,803 | 79,275 | 86,966 | 93,180 | 81,757 | 87,864 | 81,922 | 87,002 | 103,866 |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Interoffice Working Facilities: |  |  |  |  |  |  |  |  |  |  |  |
| Total Circuit Links | 3,327,397 | 4,029,495 | 1,900,698 | 2,461,398 | 2,445,471 | 4,004,974 | 4,182,896 | 4,701,614 | 4,365,148 | 4,250,911 | 4,274,046 |
| Loop Plant -- Central Office Terminations: |  |  |  |  |  |  |  |  |  |  |  |
| Total Equipped Channels | 25,939,736 | 29,164,999 | 30,128,527 | 30,278,580 | 31,455,009 | 42,599,694 | 44,228,437 | 44,158,765 | 42,082,287 | 40,826,357 | 38,442,967 |
| Copper | 24,215,106 | 27,326,198 | 28,146,972 | 27,709,878 | 28,240,814 | 29,880,881 | 28,232,406 | 26,443,750 | 24,631,902 | 22,051,252 | 17,578,663 |
| Fiber Digital Carrier | 1,719,799 | 1,833,845 | 1,978,522 | 2,559,245 | 3,209,964 | 12,715,677 | 15,994,041 | 17,713,874 | 17,449,464 | 18,774,264 | 20,864,304 |
| Other | 4,831 | 4,956 | 3,033 | 9,457 | 4,231 | 3,136 | 1,990 | 1,141 | 921 | 841 | 0 |
| Total Working Channels | 17,703,424 | 18,918,578 | 20,422,201 | 20,654,471 | 21,925,330 | 23,991,380 | 24,233,066 | 23,715,390 | 21,729,366 | 20,343,905 | 17,876,878 |
| Copper | 16,556,668 | 17,675,242 | 18,981,609 | 18,850,077 | 19,726,313 | 18,207,964 | 17,826,786 | 17,365,904 | 15,789,637 | 14,213,787 | 11,181,622 |
| Fiber Digital Carrier | 1,144,125 | 1,240,728 | 1,438,571 | 1,801,556 | 2,196,916 | 5,536,831 | 6,405,057 | 6,348,889 | 5,939,291 | 6,129,678 | 6,695,256 |
| Other | 2,631 | 2,608 | 2,021 | 2,838 | 2,101 | 246,585 | 1,223 | 597 | 438 | 440 | 0 |
| Other Transmission Facility Data: |  |  |  |  |  |  |  |  |  |  |  |
| Copper Pairs Term Main Frame (Loop Plant Only) | 24,051,564 | 27,417,498 | 27,804,891 | 29,713,980 | 30,313,513 | 29,094,240 | 21,787,495 | 21,925,961 | 22,039,455 | 19,347,181 | 14,945,270 |
| Fiber Strands Term in the CO (Loop Plant Only) | 54,651 | 70,974 | 80,372 | 93,238 | 126,604 | 43,739 | 39,394 | 33,298 | 31,120 | 29,697 | 28,814 |
| Fiber Term at Customer Premises DS1 Rate | 4,819 | 11,488 | 16,469 | 23,480 | 4,846 | 11,316 | 289 | 214 | 172 | 169 | 173 |
| Fiber Term at Customer Premises DS3 Rate \& Higher | 1,073 | 1,186 | 11,043 | 2,173 | 4,439 | 224 | 960 | 980 | 639 | 570 | 771 |
| ISDN Capable Lines | NA | NA | NA | 12,935,628 | 13,732,469 | 16,265,613 | 18,031,436 | 12,148,900 | 11,606,200 | 15,742,902 | 10,128,737 |

NA: Not available
Source: ARMIS Report 43-07.


[^0]:    Source: ARMIS Report 43-07.

