



2010 E-Rate Program and Broadband Usage Survey: Report

**Federal Communications Commission
Wireline Competition Bureau**

DA 10-2414



SUMMARY

This report presents data from the *2010 E-rate Program and Broadband Usage Survey* commissioned by the Federal Communications Commission (FCC) and conducted by Harris Interactive, Inc. (Harris), an independent national marketing research firm, between February and April 2010. The primary goal of the survey was to collect data on the current state of broadband connectivity for E-rate funded schools and libraries and inquire into challenges related to broadband use that recipients face now or will face in the future. This survey will help the Commission make policy decisions for the E-rate program by providing information on the educational and technological needs of schools and libraries.

Key Findings

- 95% of all E-rate survey respondents have some form of terrestrial broadband connection to at least one facility, while 2% use satellite and 3% use dial-up.
- However, nearly 80% of all survey respondents say their broadband connections do not fully meet their current needs.
 - Slow connection speed is the primary reason current Internet connectivity does not meet the needs for 55% of these respondents.
- 39% of E-rate survey respondents cite cost of service as a barrier in meeting their Internet needs, and 27% cite cost of installation as a barrier.
- 56% of all E-rate survey respondents expect to implement or expand the use of digital textbooks in the next two to three years, and 45% expect to implement or expand the use of handheld devices for educational purposes.
- 10% of E-rate survey respondents have broadband speeds of 100 Mbps or greater and most (55%) have broadband speeds greater than 3 Mbps.
 - More than half of school districts (60%) subscribe to a fiber optic connection.
 - 66% of respondents provide some wireless connectivity for staff, students or library patrons.
- For schools, e-mail is the most used application (almost all schools, 98%, regularly use or access e-mail), and the most essential (69% consider it the most essential).
- For libraries, online reference materials are both the most used application (86% of staff and patrons regularly use or access online reference materials) and the most essential (62% consider it the most essential).

I. Introduction

The Commission has long recognized the importance of broadband Internet services and their critical role in advancing the availability of educational and informational resources.¹ The Commission recently released an order that, among other things, makes changes to the E-rate program intended to ensure that schools can more easily obtain E-rate support for higher bandwidth services that will support more advanced applications.² The data presented in this report will further assist the Commission in its mission of promoting access to broadband services that meet the instructional and informational needs of schools and libraries.

This report on the *2010 E-rate Program and Broadband Usage Survey* examines the current state of the E-rate program as it relates to the advancement of broadband and its educational and informational purposes. The *Survey* was specifically designed to address broadband adoption and usage in the context of the E-rate program and specifically targets recipients of program funding.

This report highlights the findings of the *2010 E-rate Program and Broadband Usage Survey* in three sections. First, the report examines Internet connectivity in schools and libraries that receive E-rate funding. Next, the report looks at the types of technologies and applications used by schools and libraries that receive E-rate funding. Finally, the report addresses E-rate funded services. The report concludes with a brief summary of the survey methodology, some demographics of E-rate funded participants, and a copy of the survey instrument. Also attached is the original survey results presented to the FCC by Harris.

¹ See, e.g., *Development of Nationwide Broadband Data to Evaluate Reasonable and Timely Deployment of Advanced Services to All Americans, Improvement of Wireless Broadband Subscriberhip Data, and Development of Data on Interconnected Voice over Internet Protocol (VoIP) Subscriberhip*, WC Docket No. 07-38, Notice of Proposed Rulemaking, 22 FCC Rcd 7760, at para. 1 (2007) (*Broadband Data NPRM*); *Appropriate Framework for Broadband, Access to the Internet over Wireline Facilities, Review of Regulatory Requirements for Incumbent LEC Broadband Telecommunications Services, Computer III Further Remand Proceedings: Bell Operating Company Provision of Enhanced Services; 1998 Biennial Regulatory Review – Review of Computer III and ONA Safeguards and Requirements, Inquiry Concerning High-Speed Access to the Internet Over Cable and Other Facilities, Internet Over Cable Declaratory Ruling, Appropriate Regulatory Treatment for Broadband Access to the Internet Over Cable Facilities*, Policy Statement, 20 FCC Rcd 14986, 14987, para. 1 (2005); *Availability of Advanced Telecommunications Capability in the United States*, GN Docket No. 04-54, Fourth Report to Congress, 19 FCC Rcd 20540, 20572 (2004) (*Fourth Section 706 Report*).

² *Schools and Libraries Universal Service Support Mechanism, A National Broadband Plan for Our Future*, CC Docket No. 02-6, GN Docket No. 09-51, Sixth Report and Order, FCC 10-175 (Sep. 28, 2010) (*Sixth Report and Order*).

II.

III. Internet Connectivity in Schools and Libraries

Ninety-five percent of E-rate entities report having some form of terrestrial broadband connection to at least one facility.³ Only 3% of respondents have dial-up access and 2% have satellite connections. Overall, 42% of respondents have fiber optic connections and 14% have T3/DS-3 connections. Though 60% of school districts and 50% of consortia have some fiber optic connections, the survey does not reveal how many individual entities within a district or consortium have fiber to the premise. Only 21% of individual school respondents and 13% of library respondents have fiber optic connections. Forty-six percent of urban respondents had fiber optic connections compared to 38% of rural respondents.⁴

When the two fastest connection categories are combined, nearly half of respondents (49%) indicate they have fiber optic or T3/DS-3 connections, while 68% of school districts and 63% of consortia have fiber optic or T3/DS-3 connections.⁵ Only 25% of individual school respondents and 19% of library respondents have fiber optic or T3/DS-3 connections. Fifty-five percent of urban respondents had fiber optic or T3/DS-3 connections compared to 45% of rural respondents.

Schools and libraries are more likely to have either cable or DSL connections, and among schools, private schools are more than twice as likely as public schools to have either cable (31% to 16%) or DSL (29% to 16%).

Technologies Providing Internet Connections/Access

Reponses may total more than 100% because entities could mark more than one type of technology

| | Fiber | | Wireless | DSL | Cable | T3/DS-3 | Dial-Up | Satellite | Other |
|-------------|---------|-------|----------|-----|-------|---------|---------|-----------|-------|
| | T1/DS-1 | Optic | | | | | | | |
| Total | 51% | 42% | 36% | 21% | 20% | 14% | 3% | 2% | 3% |
| School | 51% | 21% | 38% | 27% | 28% | 9% | 2% | 2% | 1% |
| District | 50 | 60 | 33 | 15 | 14 | 18 | 3 | 2 | 3 |
| Library | 47 | 13 | 40 | 30 | 29 | 7 | 1 | 2 | 2 |
| Consortium | 65 | 50 | 36 | 21 | 19 | 26 | 8 | - | 8 |
| Public | 53% | 55% | 34% | 16% | 16% | 18% | 3% | 2% | 3% |
| Private | 43 | 16 | 37 | 31 | 29 | 6 | 2 | 1 | 2 |
| Urban | 46% | 46% | 35% | 19% | 26% | 14% | 3% | 1% | 3% |
| Rural | 50 | 38 | 35 | 21 | 14 | 12 | 2 | 2 | 2 |
| Urban/Rural | 66 | 51 | 45 | 24 | 25 | 33 | 10 | 2 | 5 |

- = Zero percent

Which of the following technologies provide Internet connection/access for your entity? Check all that apply.

Base: All Entities (n = 1,060)

³ 95% of E-rate entities report having at least one T1/DS-1, T3/DS-3, fiber optic, cable or DSL connection.

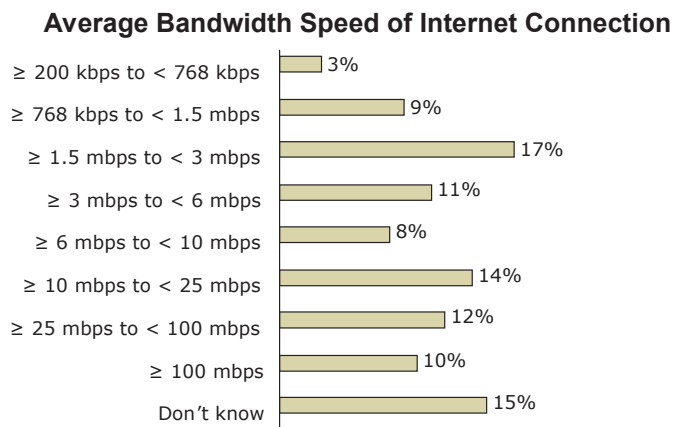
⁴ Survey respondents were asked to identify whether their entity was considered “urban” or “rural” for the purposes of the E-rate program at the time of the survey. Every school or library in the United States is located in either a rural or an urban area, based on Metropolitan Statistical Area (MSA) data.

⁵ Note that respondents could select more than one type of technology on the survey.

*Wireless Connectivity*⁶: Overall, 80% of E-rate survey respondents provide wireless Internet access in at least one building, and an additional 12% plan to make it available within the next three years. Two-thirds (66%) of respondents offer access for staff, students and/or patrons and another 14% provide access only to staff. Entities with a 90% E-rate discount rate are most likely to have wireless Internet access available.

Connection Speeds

The survey asked respondents to indicate which of several speed ranges best described the average speed of their connection.



Indicate which of the following best describes the average speed of the Internet connection to your entity.
Base: All Entities (n = 1,060)

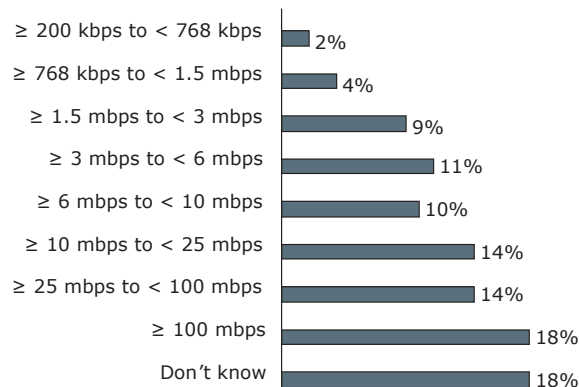
Overall, 48% of entities report experience average speeds under 10 Mbps, 36% experience average speeds greater than or equal to 10 Mbps, and 15% don't know. Schools (63%) and libraries (65%) are more likely than school districts (39%) and consortia (48%) to report average speeds under 10 Mbps. Only 14% of private schools report speeds greater than or equal to 10 Mbps compared to 48% of public schools.

Rural recipients are also more likely to report slower speeds. While 32% of rural entities report average speeds greater than or equal to 10 Mbps, 41% of urban entities and 39% of entities serving both urban and rural areas report these speeds.

The survey also asked respondents to indicate which range best described the minimum bandwidth speed needed to adequately meet the educational objectives of their entity.

⁶ The survey asked “Which of the following technologies provide Internet connection/access for your entity?” and allowed respondents to choose as many technologies as apply, including “wireless”. Respondents who chose “wireless” may be including both fixed wireless service like WiMAX or to an internal WiFi network.

Maximum Bandwidth Speed Needed



In your opinion, what is the minimum bandwidth speed needed to adequately meet the educational objectives of your entity?

Base: All Entities (n = 1,060)

Rural entities are also less likely to indicate that they need speeds in excess of 10 Mbps to adequately meet their educational objectives. One possible explanation is that they are serving fewer students or patrons. Though 46% of all entities believe they need a minimum bandwidth speed of at least 10 Mbps, only 42% of rural entities believe this to be true.

Bandwidth Speed of Internet Connection by Recipient Type

| | Average Bandwidth Speed | | | Minimum Bandwidth Speed | | |
|-------------|-------------------------|----------|------------|-------------------------|----------|------------|
| | < 10 Mbps | ≥10 Mbps | Don't Know | < 10 Mbps | ≥10 Mbps | Don't Know |
| Total | 48% | 36% | 15% | 36% | 46% | 18% |
| School | 63% | 12% | 25% | 51% | 23% | 26% |
| District | 39 | 52 | 9 | 26 | 63 | 11 |
| Library | 65 | 14 | 20 | 44 | 23 | 33 |
| Consortium | 48 | 48 | 5 | 38 | 54 | 8 |
| Public | 43% | 48% | 9% | 31% | 57% | 12% |
| Private | 58 | 14 | 30 | 48 | 22 | 31 |
| Urban | 44% | 41% | 15% | 34% | 52% | 15% |
| Rural | 54 | 32 | 14 | 39 | 42 | 19 |
| Urban/Rural | 47 | 39 | 14 | 26 | 48 | 26 |

Indicate which of the following best describes the average speed of the Internet connection to your entity. In your opinion, what is the minimum bandwidth speed needed to adequately meet the educational objectives of your entity?

Base: All Entities (n = 1,060)

Comparing responses to the two questions about average speed and minimum speed needed suggests that about 36% of E-rate entities believe they have the correct connection speed and about the same percentage, 38%, believe their connection speed is inadequate. Only 6% believe their current connections are more than adequate and 20% do not know. There is relatively little variation on this point across geographies, but school districts and consortiums are more likely to report their connections are adequate than individual schools or libraries.

Bandwidth Adequacy Based on Comparison of Average and Minimum Speeds

| | Inadequate | Correct | More than Adequate | Don't Know |
|-----------------|------------|---------|--------------------|------------|
| Total | 38% | 36% | 6% | 20% |
| School | 37% | 32% | 3% | 28% |
| School District | 40 | 40 | 8 | 12 |
| Library | 34 | 28 | 3 | 35 |
| Consortium | 33 | 50 | 8 | 8 |
| Urban | 40% | 37% | 6% | 18% |
| Rural | 37 | 37 | 6 | 21 |
| Urban/Rural | 36 | 34 | 4 | 26 |

Based on your current usage and educational objectives, please indicate whether the current Internet connection for your entity is inadequate, correct, more than adequate or you don't know.

Base: All Entities (n = 1,060)

Satisfaction with Current Connectivity

Survey respondents were also asked directly whether their current Internet connection meets their needs based on current usage and educational objectives. Using this scale, 22% said their connection speeds completely meet their needs. Just over half (58%) said their connection mostly meets their needs while 16% believe their current connections sometimes meets their needs, 3% believe connections rarely meets their needs and 1% believe connection does not meet their needs at all.

Most Recipients Desire More Bandwidth

| | |
|---------------------------------|-----|
| Completely meets your needs | 22% |
| Mostly meets your needs | 58 |
| Sometimes meets your needs | 16 |
| Rarely meets your needs | 3 |
| Does not meet your needs at all | 1 |
| Don't know | 1 |

* = Less than 1%

- = Zero percent

Based on your current usage and educational objectives, please indicate how the current Internet connection for your entity meets your needs.

Base: All Entities (n = 1,060)

Among entities that said their current Internet connection does not meet their needs, 55% cited slow connection speeds as one of the primary reasons. Thirty-seven percent of entities chose lack of capacity to serve multiple users and close to three in 10 (29%) were unsatisfied because their wireless networks cannot provide coverage to all school or library facilities.

Reasons Internet Does Not Meet Needs by Entity Type

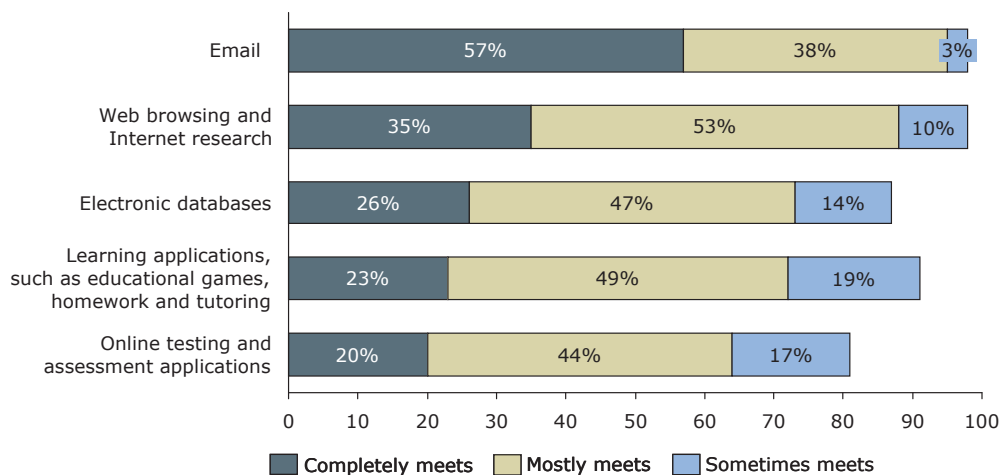
| | All Entities | School | District | Library | Consortium |
|---|--------------|--------|----------|---------|------------|
| Connection speed too slow | 55% | 54% | 54% | 62% | 59% |
| Lack of capacity to serve multiple users | 37 | 38 | 39 | 31 | 44 |
| Wireless networks cannot provide coverage to all facilities | 29 | 30 | 35 | 11 | 17 |
| Inadequate internal wiring and connections | 25 | 21 | 28 | 25 | 22 |
| Frequent interruptions of service | 13 | 15 | 11 | 18 | 15 |
| Other | 11 | 9 | 11 | 11 | 18 |

What is the primary reason that the current Internet connection does not meet some or all of your needs?
Check all that apply.

Base: Current Internet Connection Does Not Completely Meet Needs (n = 825)

The survey also asked respondents about common instructional uses of broadband. Nearly all indicated that their connectivity mostly or completely meets their e-mail needs (95%). A majority say their connectivity completely meets their e-mail needs, and additional 38% say it mostly meets their needs. Most entities (88%) report that their connectivity completely (35%) or mostly (53%) meets web browsing and Internet research needs.

Specific Needs Met by Current Connectivity

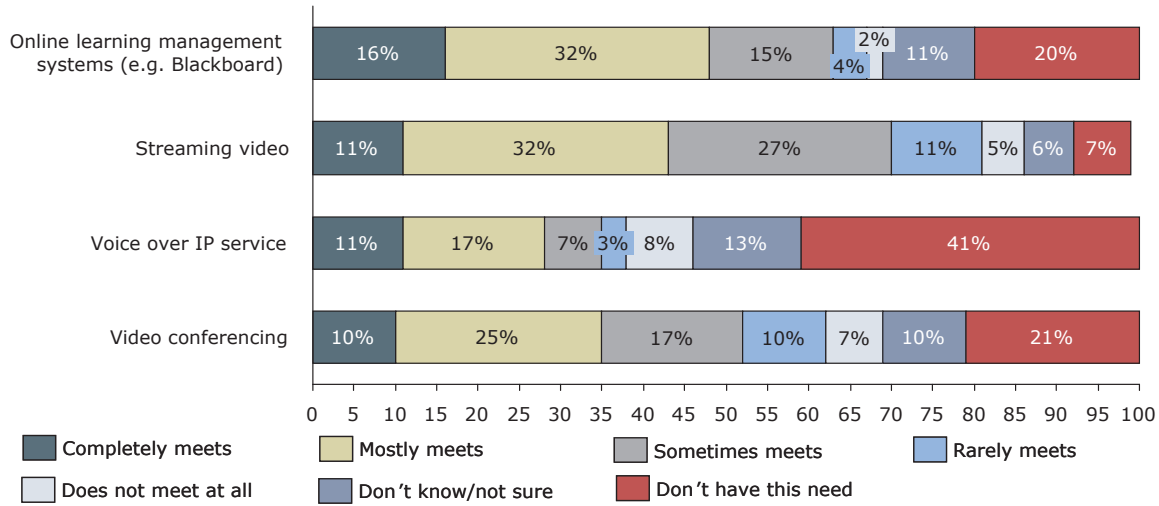


Specifically, please indicate whether the current Internet connectivity for your entity Completely Meets, Mostly Meets, Sometimes Meets, Rarely Meets or Does Not Meet At All your needs for each of the following.

Base: All Entities (n = 1,060)

Recipients are much less likely to believe their connectivity meets their video needs. Only 11% say that that their current connection completely meets their streaming video needs and even fewer (10%) report that their connections completely meet their video-conferencing needs. This question only refers to the bandwidth to the premises, not internal wiring or other network factors that may affect the actual experience in the classroom or office. As more applications have a video component, schools and libraries will likely need additional bandwidth to take advantage of the full range of educational options available.

Specific Entity Needs Not Met by Current Connectivity



More specifically, please indicate whether the current Internet connectivity for your entity Completely Meets, Mostly Meets, Sometimes Meets, Rarely Meets or Does Not Meet At All your needs for each of the following.
 Base: All Entities (n = 1,060)

Issues Preventing Recipients from Obtaining or Using Internet Access Necessary to Meet Needs

The survey asked respondents what issues prevent them from obtaining and using the Internet access necessary to meet their needs.

Issues Preventing Entities from Obtaining/Using Internet Access Necessary to Meet Needs

| | Service Cost | Install Cost | Outdated Equipment | Inadequate LAN Internal networks and wiring | Physical structure/building layout | Broadband not available | Lack of training/technical support | Frequent outages and down time | Other | No barriers |
|-------------------|--------------|--------------|--------------------|---|------------------------------------|-------------------------|------------------------------------|--------------------------------|-------|-------------|
| Total | 39% | 27% | 26% | 16% | 15% | 15% | 10% | 5% | 4% | 25% |
| 90% discount rate | 28% | 25% | 29% | 11% | 16% | 11% | 14% | 5% | 4% | 28% |
| 80 - 89% | 38 | 29 | 29 | 16 | 13 | 19 | 12 | 6 | 3 | 24 |
| 70 - 79% | 45 | 30 | 26 | 18 | 15 | 15 | 11 | 4 | 5 | 25 |
| 60 - 69% | 40 | 32 | 28 | 24 | 18 | 17 | 11 | 6 | 4 | 24 |
| 50 - 59% | 42 | 26 | 23 | 12 | 14 | 15 | 6 | 4 | 5 | 22 |
| 20 - 49% | 47 | 20 | 24 | 15 | 15 | 9 | 7 | 5 | 2 | 27 |
| School | 37% | 28% | 31% | 14% | 17% | 8% | 10% | 6% | 2% | 27% |
| School District | 40 | 24 | 24 | 17 | 14 | 16 | 10 | 4 | 5 | 26 |
| Library | 42 | 35 | 24 | 13 | 16 | 21 | 11 | 6 | 6 | 20 |
| Consortium | 45 | 47 | 32 | 24 | 13 | 14 | 7 | 5 | 5 | 16 |
| Urban | 43% | 27% | 27% | 15% | 16% | 10% | 9% | 5% | 4% | 28% |
| Rural | 35 | 27 | 25 | 17 | 15 | 20 | 10 | 5 | 4 | 24 |
| Urban/Rural | 47 | 37 | 37 | 21 | 12 | 13 | 16 | 7 | 5 | 17 |

Do any of the following issues prevent your entity from obtaining and using the high-speed, broadband Internet access that you think is necessary to meet your entity's needs? If so, check all that apply. Base: All Entities (n = 1,060)

- 39% of all respondents cited cost of service as preventing them from obtaining and using the Internet access necessary to meet their needs.
 - 35% of respondents in rural areas noted that cost of service is a barrier, while 43% of recipients in urban areas cited cost of service as a barrier.
- 27% of all respondents cited the cost of installation as a barrier.
 - 37% of rural respondents say installation costs are a barrier, while only 27% of urban districts cited cost of installation as a barrier.

Rural respondents are also more likely to report lack of availability of broadband (20% compared with 10% of urban entities). Only 11% of respondents at the 90% E-rate discount level and 9% of respondents in the 20-49% E-rate discount range cite lack of availability as a barrier, which is slightly below the overall average of 15%. Survey respondents in higher E-rate discount ranges are more likely than others to have problems with lack of training or technical support.

Approximately one-quarter (26%) of entities cited outdated computers and equipment as an issue. On average, 25% of respondents report that there are no specific issues preventing them from obtaining or using Internet access necessary to meet their needs.

Areas of Technology and Infrastructure Needing Improvement

Respondents highlighted the following areas of technology infrastructure as needing the most improvement in the next two years (respondents were allowed to select up to three areas):

- 57% cited computers and desktop equipment
- 42% cited server hardware, operating systems and storage solutions
- 38% said their staff will need more training and support
- 28% cited local area network (LAN) equipment
- 16% cited LAN (internal wiring) in general
- 19% cited wide area network (WAN) equipment such as routers and switches
- 14% cited WAN circuits

Areas of Technology Infrastructure Needing Improvement

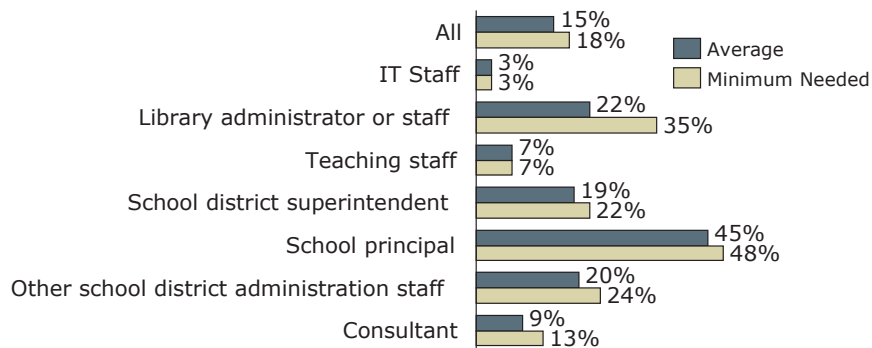
| | All | School | District | Library | Consort. | Urban | Rural | Urban/ Rural |
|---|-----|--------|----------|---------|----------|-------|-------|-----------------|
| Computers and desktop equipment | 57% | 69% | 50% | 62% | 42% | 58% | 57% | 45% |
| Server hardware, operating systems and storage solutions | 42 | 42 | 45 | 35 | 28 | 48 | 37 | 44 |
| Staff training and support | 38 | 41 | 35 | 42 | 28 | 37 | 40 | 18 |
| Technical support staff capacity and knowledge | 32 | 27 | 34 | 34 | 27 | 32 | 31 | 41 |
| LAN equipment (switches, hubs) | 28 | 26 | 31 | 19 | 25 | 26 | 30 | 27 |
| Server software applications (e.g., increasing the number of user access licenses for software) | 19 | 21 | 18 | 20 | 16 | 17 | 20 | 23 |
| WAN equipment (routers, switches) | 19 | 11 | 23 | 14 | 35 | 21 | 17 | 27 |
| Local Area Network (LAN) internal wiring | 16 | 17 | 16 | 17 | 11 | 15 | 17 | 14 |
| Wide Area Network (WAN) circuits | 14 | 6 | 18 | 12 | 36 | 12 | 15 | 28 |
| Content management systems | 11 | 10 | 11 | 9 | 18 | 14 | 8 | 19 |

Which areas of your entity's technology infrastructure need the most improvement during the next two years? Please select up to three.

Base: All Entities (n = 1,060)

Recipients without dedicated information technology (IT) staff may be less able to adequately plan for their IT needs. Many non-IT staffers responsible for the E-rate program are not familiar with their entity’s Internet connection speed. Overall, about 15% of respondents didn’t know the average speed of their connection, and 18% could not identify the minimum speed needed to adequately meet educational objectives. However, only 3% of IT staff respondents did not know this information. In contrast, 45% of the school principals surveyed did not know the average speed, and 48% did not know the minimum speed needed. This finding could suggest that non-IT professionals making decisions regarding the purchase of broadband connections may have difficulty determining what bandwidth they need to purchase.

Don’t Know Bandwidth Speed by Job Responsibility



Indicate which of the following best describes the average speed of the Internet connection to your entity. In your opinion, what is the minimum bandwidth speed needed to adequately meet the educational objectives of your entity?

Base: All Entities (n = 1,060)

IV. Technology Use by Schools and Libraries

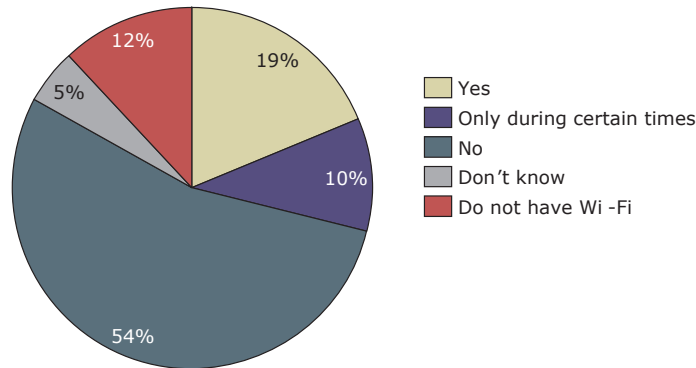
Computers in Schools

At least 90% of entities receiving funding for at least one school have computers available for students. The mean student-to-computer ratio among E-rate survey respondents that receive funding for at least one school is 5.86 to 1 and the median is almost half of that, 3 to 1. Among entities receiving funding for at least one school:

- 3% of schools have a student to computer ratio of 1:1
- 51% have a student to computer ratio of 2-3:1
- 76% have a student to computer ratio of 5:1 or lower
- 4% have a student to computer ratio of 10:1 or greater

Close to 30% of entities receiving funding for at least one school allow students to bring laptops to school to use the school’s Wi-Fi at least during certain times, but over half (54%) of the respondents never allow students to use laptops to access the school’s Wi-Fi.

Are students allowed to bring a laptop to your school or school district to utilize the school’s/district’s Wi-Fi?



Are students allowed to bring a laptop to your school or in your school district to utilize the school or school district's Wi-Fi?

Base: Entities receiving funding for at least one school (n = 898)

Wireless Applications in Schools and Libraries

Almost all (98%) entities with wireless Internet have staff, students or patrons using a laptop, netbook or personal computer for wireless access. Forty-three percent of respondents have staff, students or patrons that use smartphones or personal digital assistants (PDAs) for wireless access, and 25% report individuals using tablet personal computers. One in 10 respondents state that staff, students or patrons are using digital books or wireless reading devices such as a Kindle.

Wireless Internet Availability at Entities Receiving E-Rate Funding

| | Available for staff and students or patrons | Available for staff only | Not available, plan to make it available within 3 years | Not available, no plans to make it available | Don't know |
|-----------------|---|--------------------------|---|--|------------|
| Total | 66% | 14% | 12% | 6% | 2% |
| 90% | 77% | 9% | 6% | 6% | 1% |
| 80 - 89% | 70 | 11 | 12 | 7 | * |
| 70 - 79% | 60 | 17 | 13 | 6 | 4 |
| 60 - 69% | 62 | 16 | 12 | 7 | 3 |
| 50 - 59% | 66 | 17 | 16 | 2 | * |
| 20 - 49% | 62 | 17 | 10 | 9 | 2 |
| School | 65% | 17% | 9% | 8% | 2% |
| School District | 60 | 16 | 15 | 6 | 2 |
| Library | 90 | 1 | 4 | 4 | 1 |
| Consortium | 60 | 20 | 7 | 4 | 9 |

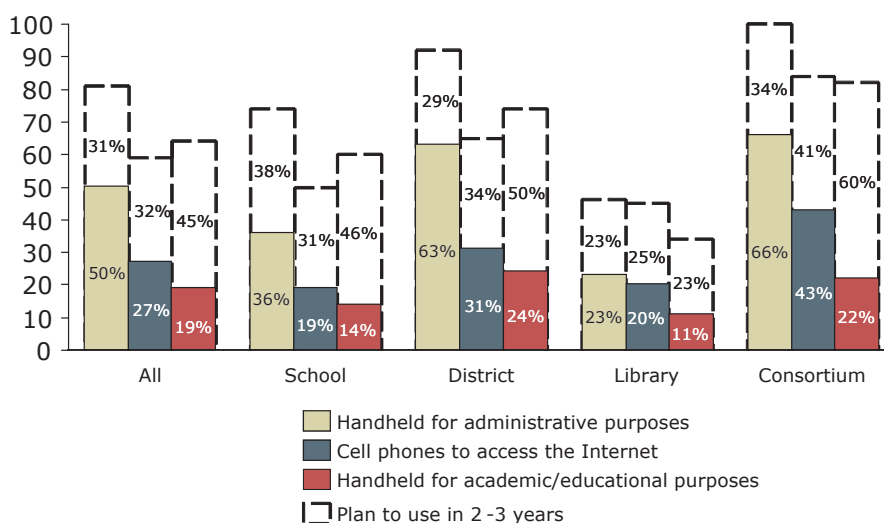
* = Less than 1%

What is the current availability of wireless Internet access provided by your entity?
Base: All Entities (n = 1,060)

Handheld Devices in Schools and Libraries

Half (50%) of E-rate survey respondents currently use handheld devices such as PDAs, smartphones or cell phones for administrative purposes, and another 31% plan to start doing so over the next 2 to 3 years. Though less than 20% of respondents currently use such devices for academic or educational purposes, 45% plan to start within the next 2 to 3 years. If respondents follow through with their current plans, 60% of schools and 74% of school districts may use handheld devices for academic/educational purposes within 3 years.

Current and Planned Use of Cell Phones and Handheld Devices by Entities Receiving E-Rate Funding



Which of the following applications does your entity already use or do you believe that your entity will implement or expand over the next two to three years? Check all that apply. If none apply, select None of the Above.

Base: All Entities (n = 1,060)

Applications Currently Used by Schools and Libraries

Almost every school (98%) regularly accesses and uses e-mail, and four out of five (80%) report students using online applications in the classroom, educators using online instructional planning materials and curriculum resources, and educators using online school and student assessment data and results.

Regularly Used or Accessed Applications Online by School Type

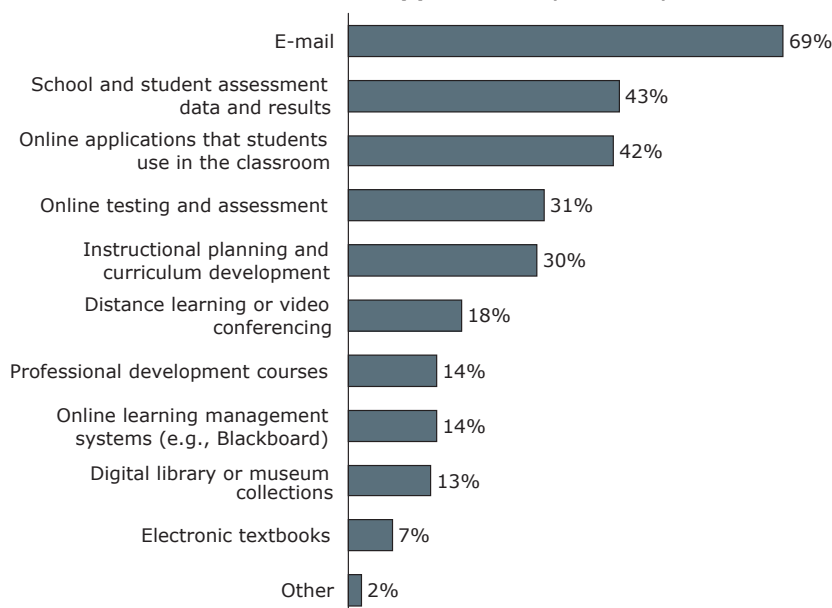
| | All | School | School District | Consortium | One School | More than one |
|--|-----|--------|-----------------|------------|------------|---------------|
| E-mail | 98% | 97% | 98% | 98% | 97% | 98% |
| Online applications that students use in the classroom | 80 | 78 | 82 | 77 | 78 | 83 |
| Instructional planning materials and curriculum resources | 79 | 79 | 79 | 71 | 77 | 81 |
| School and student assessment data and results | 78 | 67 | 84 | 75 | 62 | 87 |
| Online testing and assessment applications | 69 | 55 | 76 | 61 | 55 | 77 |
| Professional development courses | 59 | 57 | 59 | 58 | 54 | 61 |
| Digital library or museum collections, including online subscriptions to periodicals and other primary resources | 58 | 42 | 66 | 62 | 45 | 66 |
| Distance learning or video conferencing | 50 | 28 | 61 | 68 | 31 | 60 |
| Online learning management systems (e.g., Blackboard) | 46 | 39 | 50 | 50 | 37 | 52 |
| Electronic textbooks | 19 | 18 | 20 | 22 | 18 | 19 |

Please tell us whether your students, teachers and school administrative staff regularly use or access these applications online, and, if not, when does your entity anticipate making these resources available?

Base: All Schools (n = 898)

Seven in 10 schools consider e-mail an essential application. It is the most used and most often considered essential application by a wide margin. Respondents said applications for students are second in importance. Just over 40% of schools consider applications that students use in classrooms and school and student assessment data as essential online applications. Three in 10 rate online testing or instructional planning and curriculum material as essential.

Most Essential Applications (Schools)



Of the following resources or applications listed below, which do you consider **most** essential to the operation of your school or school district. Please select up to three.

Base: All Schools (n = 898)

The most common online application – and the most essential – for library respondents was online reference materials. Libraries also reported making online homework and job search, resume builders or job applications available for their patrons. About 40% of all respondents that include at least one library consider job resource material to be an essential application, and 41% consider homework resources essential, but a majority of respondents who offer each of those types of applications consider them essential.

Regularly Used or Accessed Applications Online by Library Type

| | All | One library only | More than one library | At least one school / one library |
|---|-----|------------------|-----------------------|-----------------------------------|
| Reference materials | 86% | 82% | 93% | 88% |
| Homework resources | 74 | 73 | 75 | 74 |
| Online job search, resume builders or job application filing | 70 | 84 | 83 | 54 |
| Audio content (music, audio books, etc.) | 64 | 65 | 74 | 60 |
| Licensed databases, such as Lexis/Nexis and other online subscriptions | 62 | 61 | 84 | 56 |
| Video content (e.g., streaming video, video clips, etc.) | 62 | 57 | 55 | 69 |
| Online instructional courses and tutorials, such as practice exams for the GED or other certification exams | 58 | 56 | 78 | 52 |
| E-books | 39 | 37 | 62 | 32 |
| Digital special collections (e.g. letters, postcards, documents, etc.) | 38 | 31 | 48 | 41 |
| Video conferencing | 28 | 15 | 16 | 45 |

Please indicate whether the library's staff or patrons regularly use or access these applications online, and, if not, when does your entity anticipate making these resources available?

Base: All libraries (n = 290)

Most Essential Applications by Library Type

| | All | One library only | More than one library | At least one school / one library |
|---|-----|------------------|-----------------------|-----------------------------------|
| Reference materials | 62% | 52% | 55% | 74% |
| Homework resources | 46 | 74 | 68 | 12 |
| Online job search, resume builders or job application filing | 41 | 40 | 33 | 46 |
| Audio content (music, audio books, etc.) | 40 | 34 | 64 | 38 |
| Licensed databases, such as Lexis/Nexis and other online subscriptions | 32 | 37 | 35 | 27 |
| Video content (e.g., streaming video, video clips, etc.) | 20 | 11 | 8 | 33 |
| Online instructional courses and tutorials, such as practice exams for the GED or other certification exams | 13 | 4 | 14 | 21 |
| E-books | 11 | 15 | 10 | 8 |
| Digital special collections (e.g. letters, postcards, documents, etc.) | 8 | 5 | 3 | 12 |
| Video conferencing | 5 | 4 | 5 | 7 |

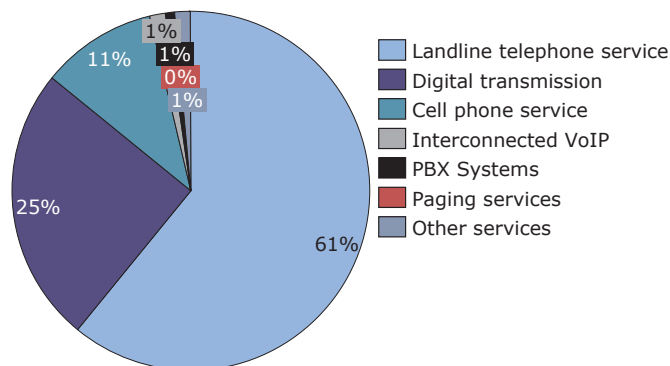
Of the following resources or applications listed below, which do you consider **most** essential to the operation of your library? Please select up to three.

BASE: All libraries (n = 290)

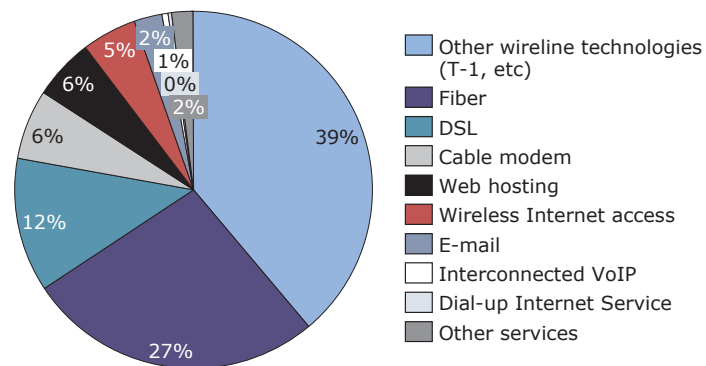
V. E-rate Funded Services

Survey respondents were asked to report on the services for which they received E-rate funding in FY 2008. Most telecommunications funding (61%) goes towards landline telephone service,⁷ 25% goes to digital transmission, and 10% goes to cell phone service. Libraries prioritize landline telephone service more than other entities, with libraries reporting 76% of telecommunications funding used for landline telephone service and only 2% used for cell phone service.

Percentage of Funding for Specific Telecommunications Services



Percentage of Funding for Specific Internet Access Services



Top Telecommunications Services

| | School | District | Library | Consort. |
|----------------------|--------|----------|---------|----------|
| Landline telephone | 67% | 56% | 76% | 51% |
| Digital transmission | 18 | 28 | 20 | 36 |
| Cell phone service | 12 | 12 | 2 | 11 |

Approximately what percentage of your FY 2008 E-rate funding for telecommunications services went to the following services? Base: All entities receiving telecommunications services funding (n = 757)

Top Internet Access Services

| | School | District | Library | Consort. |
|-----------------------------|--------|----------|---------|----------|
| Other wireline technologies | 39% | 39% | 36% | 41% |
| DSL | 22 | 37 | 35 | 39 |
| Cable modem | 16 | 7 | 11 | 8 |

Approximately what percentage of your FY 2008 E-rate funding for Internet access went to the following services? Base: All Entities Receiving Internet Access Funding (n =582)

Respondents use a wide variety of services for Internet access:

- 39% is spent on “other” wireline technologies, including T-1
- 39% is spent on Fiber (27%) or DSL (12%)
- 6% is spent on cable modem

The majority of the average internal connection funding (55%), which are the components that transport information to classrooms and public areas in libraries, is for services other than servers, software and software licenses. Just over one-third (35%) of this funding goes to servers (including installation and related charges), and 10% goes to software and software licenses.

By a wide margin, Internet access and landline telephone services are considered the most critical services funded under the E-rate program.

- 78% of all respondents consider Internet access critical

⁷ For purposes of the E-rate program, services selected under the telecommunications service category include not only basic telephone service, but also include T-1s, T-3s, and fractional T-1s; fiber optics; digital transmission services, including DSL, Ethernet, frame relay services, and integrated services digital network (ISDN); satellite service; and wireless service.

- 72% cite landline telephone service as critical

Libraries are more likely to identify E-rate funded landline telephone service as their most critical service while schools and consortia are more likely to identify Internet access. Eighty-one percent of libraries consider landline telephone service as critical compared to 65% of libraries that say that E-rate funding for Internet access is critical. In contrast, 81% of schools and 88% of consortia believe Internet access is critical compared to only 63% and 47% respectively that say landline telephone service is critical. School districts consider both services critical with a slight emphasis on Internet access, 79% to 75%.

Most critical services currently funded under E-Rate

| | Internet access | Landline telephone | High speed circuits for WANs | Cell phone service | E-mail | Internal connections | Basic maintenance of internal connections | Web hosting |
|-----------------|-----------------|--------------------|------------------------------|--------------------|--------|----------------------|---|-------------|
| Total | 78% | 72% | 34% | 23% | 18% | 16% | 15% | 9% |
| 90% | 79% | 51% | 24% | 15% | 21% | 36% | 49% | 6% |
| 80 - 89% | 73 | 74 | 34 | 25 | 19 | 22 | 16 | 8 |
| 70 - 79% | 77 | 72 | 43 | 20 | 17 | 16 | 6 | 11 |
| 60 - 69% | 78 | 81 | 37 | 25 | 18 | 8 | 6 | 9 |
| 50 - 59% | 76 | 76 | 35 | 26 | 14 | 10 | 9 | 10 |
| 20 - 49% | 87 | 73 | 29 | 28 | 19 | 5 | 7 | 9 |
| School | 81% | 63% | 18% | 23% | 25% | 18% | 23% | 8% |
| School District | 79 | 75 | 45 | 21 | 15 | 17 | 13 | 11 |
| Library | 65 | 81 | 20 | 27 | 15 | 9 | 6 | 3 |
| Consortium | 88 | 47 | 45 | 12 | 17 | 18 | 17 | 4 |
| Urban | 81% | 67% | 34% | 23% | 17% | 17% | 19% | 10% |
| Rural | 74 | 76 | 34 | 22 | 16 | 16 | 12 | 8 |
| Urban/Rural | 86 | 71 | 42 | 29 | 13 | 13 | 7 | 6 |

What are the most critical services for your school, school district, or library that is currently funded under the E-rate program? Please select up to three.

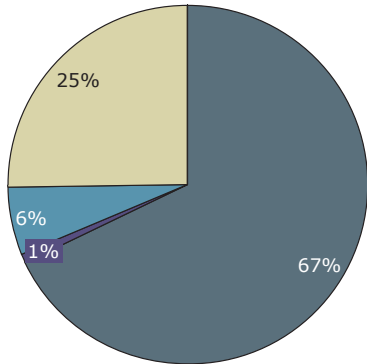
Base: All Entities (n = 1,060)

Overall, about one in six consider internal connections (16%) and basic maintenance of internal connections (15%) critical, but entities with a 90% discount rate are more likely to emphasize the importance of internal connections. Among entities with a 90% discount rate:

- 49% say basic maintenance of internal connections is critical.
- 36% say internal connections are critical.

Most survey respondents indicated that they did not receive E-rate funding for internal connections (67%) or basic maintenance of internal connections (65%). Of those respondents that could identify the amount of E-rate funding received, the amount was generally \$10,000 or more for internal connections, and \$5,000 or more for basic maintenance of internal connections.

Amount of Funding for Internal Connections

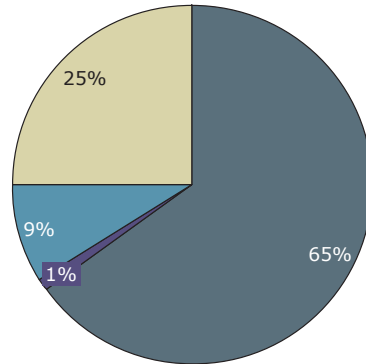


Nothing
 < \$10,000
 \$10,000 or more
 Don't know

What is the total amount of E-rate funding your entity has received or expects to receive for the following services in Funding Year 2008? Internal Connections

Base: All entities (n = 1,060)

Amount of Funding for Basic Maintenance of Internal Connections



Nothing
 < \$5,000
 \$5,000 or more
 Don't know

What is the total amount of E-rate funding your entity has received or expects to receive for the following services in Funding Year 2008? Basic maintenance of internal connections

Base: All Entities (n = 1,060)

About the Survey

The 2010 E-rate Program and Broadband Usage Survey was conducted by Harris Interactive, Inc. (Harris), from February 25 to April 5, 2010. USAC provided Harris with a list of all 22,819 E-rate recipients from funding year 2008. Harris surveyed a sample of 5,000 recipients of funding from 2008 and received completed surveys from 1,060 E-rate recipients. Sample recipients were sent an invitation via e-mail, sent five reminder e-mails and called twice to participate in the online survey. For responses based on the online survey, the margin of error is +/- 2.9% at the 95% confidence level.

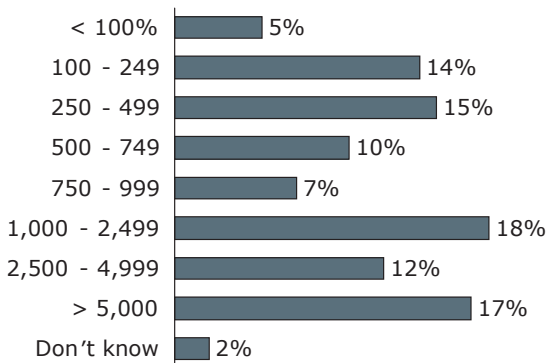
Online survey results were weighted by entity type and urban-rural definition to reflect the proportion of urban schools, rural schools, urban school districts, rural school districts, libraries and school-library consortiums in the USAC recipient list. On April 26 and 27, 2010, Harris conducted telephone follow-up interviews with 100 E-rate recipients who did not answer the online survey. The telephone survey was approximately five minutes long and did not include all questions contained in the online survey.

According to the survey, the mean number of students served by all applicants who fund school projects is 8,090. However, many E-rate applications include smaller schools, resulting in a median of 935 students per applicant. Overall, 69% of all applicants have less than 2,500 students enrolled in their school or district. Because of the inclusion of consortia, the mean and median for all applicants that fund school projects is significantly higher than the mean and median for individual schools and school districts:

- The mean number of students at schools surveyed is 1,650, and the median is 300.
- The mean number of students at school districts surveyed is 6,601, and the median is 1,700.
- The mean number of students at consortia surveyed is 120,321, and the median is 9,428.

Similarly, based on responses from applicants who knew information about the size of their service areas, the mean number of people living in areas served by libraries receiving funding is 75,978, but the median is significantly lower at 8,886.

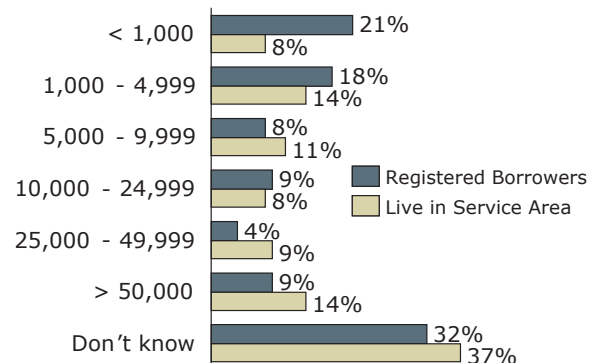
Number of Students



How many students are currently enrolled at your school or in your school district?

Base: Entities receiving funding for at least one school (n = 898)

Number of Registered Borrowers/ People in Library Service Area



How many registered borrowers are/people live in the service area currently served by the branch library or library system receiving E-rate funding?

Base: Entities receiving funding for at least one library (n=290)

SURVEY QUESTIONS

1. Which “applicant type” do you generally select on your E-rate application?
 1. School
 2. School district
 3. Library
 4. Consortium
 5. Don’t know/never applied (**TERMINATE**)

2. Did you receive E-rate funding for Funding Year 2008 (7/1/2008 – 6/30/2009) to support projects at:
 1. One school, but no libraries (**Go to Q3**)
 2. More than one school, but no libraries (**Go to Q3**)
 3. One library, but no schools (**Go to Q5**)
 4. More than one library, but no schools (**Go to Q5**)
 5. At least one school and at least one library (**Go to Q3**)
 6. None of the above (**TERMINATE**)

3. Was the school(s) that received E-rate funding in Funding Year 2008 public or private?
 1. Public, including charter schools
 2. Private
 3. Don’t know

4. Was the school(s) that received E-rate funding in Funding Year 2008...? Check all that apply.
 1. Pre-school
 2. Elementary school, including kindergarten
 3. Middle school or junior high
 4. High school
 5. Don’t know

5. Which of the following best describes your primary job responsibility?
 1. Information technology staff
 2. Library administrator or staff
 3. Teaching staff
 4. School district superintendent
 5. School principal
 6. Other school district administration staff
 7. Consultant
 8. None of the above (**TERMINATE**)

Now, we have some questions about the technology available at your entity (i.e., school, school district and/or library) and your entity’s use of that technology. For these questions, please specifically answer about the entities that have received E-rate funding in Funding Year 2008.

6. Which of the following technologies provide Internet connection/access for your entity?
Check all that apply.
1. Dial-up
 2. T1/DS-1
 3. T3/DS-3
 4. Fiber optic
 5. Cable
 6. DSL
 7. Satellite
 8. Wireless
 9. Other
 10. Don't know
7. Indicate which of the following best describes the average speed of the Internet connection to your entity.
1. Greater than 200 Kbps to less than 768 Kbps
 2. Greater than or equal to 768 Kbps to less than 1.5 Mbps
 3. Greater than or equal to 1.5 Mbps to less than 3 Mbps
 4. Greater than or equal to 3 Mbps to less than 6 Mbps
 5. Greater than or equal to 6 Mbps to less than 10 Mbps
 6. Greater than or equal to 10 Mbps to less than 25 Mbps
 7. Greater than or equal to 25 Mbps to less than 100 Mbps
 8. Greater than or equal to 100 Mbps
 9. Don't know
8. In your opinion, what is the minimum bandwidth speed needed to adequately meet the educational objectives of your entity?
1. Greater than 200 Kbps to less than 768 Kbps
 2. Greater than or equal to 768 Kbps to less than 1.5 Mbps
 3. Greater than or equal to 1.5 Mbps to less than 3 Mbps
 4. Greater than or equal to 3 Mbps to less than 6 Mbps
 5. Greater than or equal to 6 Mbps to less than 10 Mbps
 6. Greater than or equal to 10 Mbps to less than 25 Mbps
 7. Greater than or equal to 25 Mbps to less than 100 Mbps
 8. Greater than or equal to 100 Mbps
 9. Don't know
9. What is the current availability of wireless Internet access provided by your entity?
1. Available for both staff, students and/or patrons
 2. Available for staff only
 3. Not available for anyone, but plan to make it available for some within the next three years
 4. Not available for anyone, and no plans to make it available
 5. Don't know

ONLY ASK QUESTION 10, IF QUESTION 9 EQUALS "1" OR "2":

10. What type of wireless equipment are your staff, students, and/or patrons currently using to access the Internet at your school or library? Check all that apply. **(ROTATE RESPONSE OPTIONS 1-4)**
1. Laptops, Netbooks or PCs
 2. Tablet PCs
 3. Smartphones or Personal Digital Assistants (PDAs), such as a Blackberry or iPhone
 4. E-books or wireless reading devices, such as a Kindle
 5. Other
 6. Don't know

11. Based on current usage and educational objectives, please indicate whether the current Internet connection for your entity...
 1. Completely meets your needs
 2. Mostly meets your needs
 3. Sometimes meets your needs
 4. Rarely meets your needs
 5. Does not meet your needs at all
 6. Don't know

ONLY ASK QUESTION 12, IF QUESTION 11 EQUALS “2”, “3”, “4” OR “5”:

12. What is the primary reason that the current Internet connection does not meet some or all of your needs? Check all that apply. **(ROTATE RESPONSE OPTIONS 1-5)**
 1. Lack of capacity to serve multiple users
 2. Connection speed is too slow
 3. Frequent interruptions of service
 4. Inadequate internal wiring and connections
 5. Wireless networks can not provide coverage to all facilities
 6. Other

13. Do any of the following issues prevent your entity from obtaining and using the high-speed, broadband Internet access that you think is necessary to meet your entity's needs? If so, check all that apply. **(ROTATE RESPONSE OPTIONS 1-8)**
 1. Service too costly
 2. Installation too costly
 3. Lack of availability of broadband
 4. Inadequate local area network (LAN) services/internal networks and wiring
 5. Outdated computers and equipment
 6. Lack of training and technical support
 7. Inconsistent service/frequent outages and down time
 8. Physical structure or layout of building(s)
 9. Other
 10. No barriers prevent our entity from obtaining and using high-speed broadband Internet
 11. Don't know

More specifically, please indicate whether the current Internet connectivity for your entity **Completely Meets, Mostly Meets, Sometimes Meets, Rarely Meets** or **Does Not Meet At All** your needs for each of the following. **(Rotate Questions 14 to 22)**

| | Completely Meets | Mostly Meets | Sometimes Meets | Rarely Meets | Does Not Meet At All | Don't know/Not Sure | Don't have this need |
|------------------------|------------------|--------------|-----------------|--------------|----------------------|---------------------|----------------------|
| 14. E-mail | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 15. Video conferencing | 1 | 2 | 3 | 4 | 5 | 6 | 7 |

| | | | | | | | |
|--|---|---|---|---|---|---|---|
| 16. Streaming video | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 17. Voice over IP (VoIP) service | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 18. Web browsing and Internet research | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 19. Electronic databases | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 20. Learning applications, such as educational games, homework or tutoring | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 21. Online learning management systems (e.g., Blackboard) | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 22. Online testing and assessment applications | 1 | 2 | 3 | 4 | 5 | 6 | 7 |

Now, we have some questions for you specifically about the Internet applications available within your entity. For these questions, please specifically answer about the entity for which you have received E-rate funding.

ONLY ASK QUESTIONS 23-32, IF QUESTION 2 EQUALS “1”, “2” OR “5”:

Please tell us whether your students, teachers and school administrative staff regularly use or access these applications online, and, if not, when does your entity anticipate making these resources available? **(Rotate Questions 23 to 32)**

| | Currentl y have access | Plan to make available within the next 12 months | Plan to make available within the next 12 to 24 months | Plan to make availabl e in more than 24 months | Don't plan on making availabl e | Don't know |
|---|------------------------------|---|---|--|---|---------------|
| 23. Electronic textbooks | 1 | 2 | 3 | 4 | 5 | 6 |
| 24. Professional development courses | 1 | 2 | 3 | 4 | 5 | 6 |
| 25. Instructional planning materials and curriculum resources | 1 | 2 | 3 | 4 | 5 | 6 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 26. School and student assessment data and results | 1 | 2 | 3 | 4 | 5 | 6 |
| 27. Digital library or museum collections, including online subscriptions to periodicals and other primary source resources | 1 | 2 | 3 | 4 | 5 | 6 |
| 28. Distance learning or video conferencing | 1 | 2 | 3 | 4 | 5 | 6 |
| 29. Online applications that students use in the classroom | 1 | 2 | 3 | 4 | 5 | 6 |
| 30. E-mail | 1 | 2 | 3 | 4 | 5 | 6 |
| 31. Online testing and assessment applications | 1 | 2 | 3 | 4 | 5 | 6 |
| 32. Online learning management systems (e.g., Blackboard) | 1 | 2 | 3 | 4 | 5 | 6 |

ONLY ASK QUESTIONS 33-42, IF QUESTION 2 EQUALS “3”, “4” OR “5”:

Please indicate whether the library’s staff or patrons regularly use or access these applications online, and, if not, when does your entity anticipate making these resources available? (**Rotate Questions 33 to 42**)

| | Currentl y have access | Plan to make available within the next 12 months | Plan to make available within the next 12 to 24 months | Plan to make availabl e in more than 24 months | Don’t plan on making availabl e | Don’t know |
|---|------------------------------|---|---|--|---|---------------|
| 33. Licensed databases, such as Lexis/Nexis and other online subscriptions | 1 | 2 | 3 | 4 | 5 | 6 |
| 34. Reference materials | 1 | 2 | 3 | 4 | 5 | 6 |
| 35. Online instructional courses and tutorials, such as practice exams for the GED or other certification exams | 1 | 2 | 3 | 4 | 5 | 6 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 36. Online job search, resume builders or job application filing | 1 | 2 | 3 | 4 | 5 | 6 |
| 37. Digital special collections (e.g., letters, postcards, documents, etc.) | 1 | 2 | 3 | 4 | 5 | 6 |
| 38. E-books | 1 | 2 | 3 | 4 | 5 | 6 |
| 39. Video conferencing | 1 | 2 | 3 | 4 | 5 | 6 |
| 40. Homework resources | 1 | 2 | 3 | 4 | 5 | 6 |
| 41. Audio content (e.g., music, audio books, etc.) | 1 | 2 | 3 | 4 | 5 | 6 |
| 42. Video content (e.g., streaming video, video clips, etc.) | 1 | 2 | 3 | 4 | 5 | 6 |

ONLY ASK QUESTION 43A, IF QUESTION 2 EQUALS “1”, “2” OR “5”:

43A. Of the following resources or applications listed below, which do you consider **most** essential to the operation of your school or school district? Please select up to three. **(ROTATE RESPONSE OPTIONS 1-10)**

1. Electronic textbooks
2. Professional development courses
3. Instructional planning materials and curriculum resources
4. School and student assessment data and results
5. Digital library or museum collections, including online subscriptions to periodicals and other primary source resources
6. Distance learning or video conferencing
7. Online applications that students use in the classroom
8. E-mail
9. Online testing and assessment applications
10. Online learning management systems (e.g., Blackboard)
11. Other

ONLY ASK QUESTION 43B, IF QUESTION 2 EQUALS “3”, “4” OR “5”:

43B. Of the following resources or applications listed below, which do you consider **most** essential to the operation of your library? Please select up to three. **(ROTATE RESPONSE OPTIONS 1-10)**

1. Licensed databases, such as Lexis/Nexis and other online subscriptions
2. Reference materials
3. Online instructional courses and tutorials, such as practice exams for the GED or other certification exams

4. Online job search, resume builders or job application filing
 5. Digital special collections (e.g., letters, postcards, documents, etc.)
 6. E-books
 7. Video conferencing
 8. Homework resources
 9. Audio content (e.g., music, audio books, etc.)
 10. Video content (e.g., streaming video, video clips, etc.)
 11. Other
44. Which areas of your entity's technology infrastructure need the most improvement during the next two years. Please select up to three. **(ROTATE RESPONSE OPTIONS 1-10)**
1. Local Area Network (LAN) (internal wiring)
 2. Local Area Network (LAN) equipment (switches, hubs)
 3. Computers and desktop equipment
 4. Wide Area Network (WAN) circuits
 5. Wide Area Network (WAN) equipment (routers, switches)
 6. Server software applications (e.g., increasing the number of user access licenses for software)
 7. Server hardware, operating systems and storage solutions
 8. Technical support staff capacity and knowledge
 9. Staff training and support
 10. Content management systems
- 45- Which of the following applications does your entity already use or do you believe that
46. your entity will implement or expand over the next two to three years? Check all that apply. If none apply, select None of the Above. **(ROTATE RESPONSE OPTIONS 1-5)**

| | Q45 Already Using | Q46 Will implement or expand |
|--|----------------------------------|---|
| Interactive white boards | 1 | 1 |
| Electronic textbooks | 2 | 2 |
| Using cell phones to access the Internet | 3 | 3 |
| Using handheld devices, such as PDAs, Smartphones or cell phones, for administrative purposes | 4 | 4 |
| Using handheld devices, such as PDAs, Smartphones or cell phones, for academic or educational purposes | 5 | 5 |
| Other | 6 | 6 |
| None of the above | 7 | 7 |

Now, a general question for you about the E-rate program.

47. What are the most critical services for your school, school district, or library that is currently funded under the E-rate program? Please select up to three. **(ROTATE RESPONSE OPTIONS 1-8)**
1. Landline telephone service (including VoIP, Centrex, or other telephone equivalent)
 2. High speed telecommunications circuits for WANs, distance learning, etc.
 3. Cell phone service
 4. Internet access
 5. Internal connections
 6. E-mail
 7. Web hosting
 8. Basic maintenance of internal connections
 9. Other
 10. Don't know

Now, we have some questions for you about the services that your entity funded under the E-rate program in Funding Year 2008. Please note that some of the questions in this section may require you to refer to your E-rate records or consult with others within your school, school district, or library to obtain the necessary information to respond to the questions.

As a reminder, we are surveying a representative sample of E-rate beneficiaries for feedback on the program. We will report the results of this survey in summary form only, thus no information will be included that could be used to identify individual respondents.

48. What is your entity's current E-rate discount rate?
1. 90%
 2. 80%-89%
 3. 70%-79%
 4. 60%-69%
 5. 50%-59%
 6. 40%-49%
 7. 30%-39%
 8. 20%-29%
 9. Don't know
49. What was the last funding year that your entity **received** funding under the E-rate program? **(Drop down menu of years)**
1. 2009
 2. 2008
 3. 2007
 4. 2006
 5. 2005
 6. 2004
 7. 2003

- 8. 2002
- 9. 2001
- 10. 2000
- 11. 1999
- 12. 1998
- 13. Don't know

50. In Funding Year 2008, what was your entity's committed amount of E-rate funding?
- 1. Less than \$10,000
 - 2. \$10,001 to \$50,000
 - 3. \$50,001 to \$100,000
 - 4. \$100,001 to \$200,000
 - 5. \$200,001 to \$500,000
 - 6. \$500,001 to \$1 million
 - 7. \$1 million to \$2 million
 - 8. More than \$2 million
 - 9. Don't know

51. What is the total amount of E-rate funding your entity has received or expects to receive for the following services in Funding Year 2008? Please enter responses in whole dollar amounts. Please enter zero if your entity received no funding for the service. You may refer to your E-rate records or consult with others within your school, school district, or library to assist you with responding to this question.

| | |
|------------|---|
| \$ | Telecommunications services (Go to Q52A) |
| \$ | Internet access (Internet, Web-hosting, E-mail, etc.) (Go to Q52B) |
| \$ | Internal connections (Go to Q52C) |
| \$ | Basic maintenance of internal connections |
| 999999999. | Don't know (Go to Q53) |

- 52A. Approximately what percentage of your Funding Year 2008 E-rate funding for telecommunications services went to the following services? **(Responses must add up to 100 percent)**

- 1. Landline telephone service, including local, long distance, Centrex
- 2. Cell phone service
- 3. PBX systems
- 4. Interconnected VoIP
- 5. Digital transmission (for example, DSL, ATM, wireless, satellite, T-1, DS-1, T-3, DS-3, fiber optic, broadband over power lines, frame relay, ISDN)
- 6. Paging services
- 7. Other services

- 52B. Approximately what percentage of your Funding Year 2008 E-rate funding for Internet access went to the following services? **(Responses must add up to 100 percent)**

- 1. Dial-up Internet access
- 2. Wireless Internet access
- 3. Internet access via DSL

4. Internet access via cable modem
5. Internet access via fiber
6. Internet access via other wireline technologies, including T-1, etc.
7. Email
8. Web hosting
9. Interconnected VoIP
10. Other services

52C. Approximately what percentage of your Funding Year 2008 E-rate funding for internal connections went to the following services and equipment? **(Responses must add up to 100 percent)**

1. Servers (including installation and related charges)
2. Software and software licenses
3. Other services

Finally, we have a few questions for classification purposes.

53. Is your entity currently in a network with any local, regional or state government entities?
1. Yes
 2. No
 3. Don't know
54. For the purposes of the E-rate program, is your entity considered urban or rural?
1. Urban
 2. Rural
 3. Both urban and rural
 4. Don't know

ONLY ASK QUESTIONS 55 TO 57, IF QUESTION 2 EQUALS "1", "2" OR "5":

55. How many students are currently enrolled at your school or in your school district?

Number of students

99999. Don't know

56. Approximately, how many students are there per computer at your school or within your school district? Please round response to nearest digit.

Number of students per computer

99999. Don't know

57. Are students allowed to bring a laptop to your school or in your school district to utilize the school or school district's Wi-Fi?

1. Yes
2. No
3. Only during certain times
4. Do not have Wi-Fi
5. Don't know

ONLY ASK QUESTIONS 58 AND 59, IF QUESTION 2 EQUALS “3”, “4” OR “5”:

58. How many registered borrowers are currently served by the branch library or library system receiving E-rate funding?

Number of registered borrowers

99999. Don't know

59. How many people live in the service area currently served by the branch library or library system receiving E-rate funding?

Number of people live in the service area

99999. Don't know

60. If your entity uses an outside consultant to assist you with the E-rate process, what is the annual cost of those services?

1. Less than \$1,000
2. \$1,001 to \$5,000
3. \$5,001 to \$15,000
4. \$15,001 to \$50,000
5. \$50,001 to \$100,000
6. \$100,001 to \$500,000
7. \$500,001 to \$1 million
8. Greater than \$1 million
9. Use a consultant, but don't know amount
10. Don't use a consultant

Please feel free to provide any additional comments here.

Those are all the questions we have. Thank you for participating in this survey.