



**LibQUAL<sup>+</sup>**  
*2008 Survey*

**ARL**

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**Association of Research Libraries / Texas A&M University**  
[www.libqual.org](http://www.libqual.org)





# **LibQUAL<sup>+</sup>**

## *2008 Survey*

**ARL**

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ISBN 1-59407-819-X (PDF)

# 1 Introduction

## 1.1 Acknowledgements

This notebook contains information from the 2008 administration of the LibQUAL+® protocol. The material on the following pages is drawn from the analysis of responses from the participating institutions collected in 2008.

The LibQUAL+® project requires the skills of a dedicated group. We would like to thank several members of the LibQUAL+® team for their key roles in the development of this service. From Texas A&M University, the qualitative leadership of Yvonna Lincoln has been key to the project's integrity. The behind-the-scenes roles of Bill Chollet and others from the library Systems and Training units were also formative in the early years. From the Association of Research Libraries, we are appreciative of the past contributions of Consuella Askew, Richard Groves, Amy Hoseth, Mary Jackson, Jonathan Sousa, and Benny Yu.

A New Measures initiative of this scope is possible only as the collaborative effort of many libraries. To the directors and liaisons at all participating libraries goes the largest measure of gratitude. Without your commitment, the development of LibQUAL+® would not have been possible. We would like to extend a special thank you to all administrators at the participating consortia and libraries that are making this project happen effectively across various institutions.

We would like to acknowledge the role of the Fund for the Improvement of Post-secondary Education (FIPSE), U.S. Department of Education, which provided grant funds of \$498,368 over a three-year period (2001-03). We would also like to acknowledge the support of the National Science Foundation (NSF) for its grant of \$245,737 over a three-year period (2002-04) to adapt the LibQUAL+® instrument for use in the science, math, engineering, and technology education digital library community, an assessment tool in development now called DigiQUAL. We would like to express our thanks for the financial support that has enabled the researchers engaged in this project to exceed all of our expectations in stated goals and objectives and deliver a remarkable assessment tool to the library community.

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## 1.2 LibQUAL+®: a Project from StatsQUAL®

I would personally like to say a word about the development of LibQUAL+® over the last few years and to thank the people that have been involved in this effort. LibQUAL+® would not have been possible without the many people who have offered their time and constructive feedback over the years for the cause of improving library services. In a sense, LibQUAL+® has built three kinds of partnerships: one between ARL and Texas A&M University, a second one among the participating libraries and their staff, and a third one comprising the thousands of users who have provided their valuable survey responses over the years.

LibQUAL+® was initiated in 2000 as an experimental project for benchmarking perceptions of library service quality across 13 ARL libraries under the leadership of Fred Heath and Colleen Cook, then both at Texas A&M University Libraries. It matured quickly into a standard assessment tool that has been applied at more than 1,000 libraries, collecting information on more than half a million library users. Each year since 2003, we have had more than 200 libraries conduct LibQUAL+®, more than 100,000 users respond, and annually more than 50,000 users provide rich comments about the ways they use their libraries.

There have been numerous advancements over the years. In 2005, libraries were able to conduct LibQUAL+® over a two session period (Session I: January to May and Session II: July to December). The LibQUAL+® servers were moved from Texas A&M University to an external hosting facility under the ARL brand known as StatsQUAL®. Through the StatsQUAL® gateway we will continue to provide innovative tools for libraries to assess and manage their environments in the coming years. In 2006, we added the LibQUAL+® Analytics (for more information, see Section 1.6).

LibQUAL+® findings have engaged thousands of librarians in discussions with colleagues and ARL on what these findings mean for local libraries, for their regions, and for the future of libraries across the globe. Consortia have supported their members' participation in LibQUAL+® in order to offer an informed understanding of the changes occurring in their shared environment. Summary highlights have been published on an annual basis showcasing the rich array of information available through LibQUAL+®:

LibQUAL+® 2007 Survey Highlights

<[http://www.libqual.org/documents/admin/LibQUALHighlights2007\\_Full\\_Supplemental.pdf](http://www.libqual.org/documents/admin/LibQUALHighlights2007_Full_Supplemental.pdf)>

<[http://www.libqual.org/documents/admin/LibQUALHighlights2007\\_Full.pdf](http://www.libqual.org/documents/admin/LibQUALHighlights2007_Full.pdf)>

LibQUAL+® 2006 Survey Highlights

<<http://www.libqual.org/documents/admin/LibQUALHighlights2006.pdf>>

LibQUAL+® 2005 Survey Highlights

<<http://www.libqual.org/documents/admin/LibQUALHighlights20051.pdf>>

LibQUAL+® 2004 Survey Highlights

<<http://www.libqual.org/documents/admin/ExecSummary%201.3.pdf>>

LibQUAL+® 2003 Survey Highlights

<[http://www.libqual.org/documents/admin/ExecSummary1.1\\_locked.pdf](http://www.libqual.org/documents/admin/ExecSummary1.1_locked.pdf)>

Summary published reports have also been made available:

**<<http://www.arl.org/pubscat/libqualpubs.html>>**

The socio-economic and technological changes that are taking place around us are affecting the ways users interact with libraries. We used to think that libraries could provide reliable and reasonably complete access to published and scholarly output, yet we now know from LibQUAL+® that users have an insatiable appetite for content. No library can ever have sufficient information content that would come close to satisfying this appetite.

The team at ARL and beyond has worked hard to nurture the community that has been built around LibQUAL+®. We believe that closer collaboration and sharing of resources will bring libraries nearer to meeting the ever changing needs of their demanding users. It is this spirit of collaboration and a willingness to view the world of libraries as an organic, integrated, and cohesive environment that can bring forth major innovations and break new ground. Innovation and aggressive marketing of the role of libraries in benefiting their communities strengthen libraries.

In an example of collaboration, LibQUAL+® participants are sharing their results within the LibQUAL+® community with an openness that nevertheless respects the confidentiality of each institution and its users. LibQUAL+® participants are actively shaping our Share Fair gatherings, our in-person events, and our understanding of how the collected data can be used. LibQUAL+® offers a rich resource that can be viewed using many lenses, should be interpreted in multiple ways, and is a powerful tool libraries can use to understand their environment.

LibQUAL+® is a community mechanism for improving libraries and I hope we see an increasing number of libraries utilizing it successfully in the years to come. I look forward to your continuing active involvement in helping us understand the many ways we can improve library services.

With warm regards,

Martha Kyrillidou

Director, ARL Statistics and Service Quality Programs

## 1.3 LibQUAL+®: Defining and Promoting Library Service Quality

### **What is LibQUAL+®?**

LibQUAL+® is a suite of services that libraries use to solicit, track, understand, and act upon users' opinions of service quality. These services are offered to the library community by the Association of Research Libraries (ARL). The program's centerpiece is a rigorously tested Web-based survey bundled with training that helps libraries assess and improve library services, change organizational culture, and market the library. The goals of LibQUAL+® are to:

- Foster a culture of excellence in providing library service
- Help libraries better understand user perceptions of library service quality
- Collect and interpret library user feedback systematically over time
- Provide libraries with comparable assessment information from peer institutions
- Identify best practices in library service
- Enhance library staff members' analytical skills for interpreting and acting on data

As 2007, more than 1,000 libraries have participated in the LibQUAL+® survey, including Canadian government libraries, colleges and universities, community colleges, health sciences and hospital/medical libraries, law libraries, public libraries, and secondary school libraries---some through various consortia, others as independent participants. LibQUAL+® has expanded internationally, with participating institutions in Canada, the U.K. and other European countries as well as Australia and South Africa. It has been translated into a number of languages, including Afrikaans, Chinese (Traditional), Danish, Dutch, Finnish, French, German, Japanese, Norwegian, Spanish, Swedish, and Welsh. The growing LibQUAL+® community of participants and its extensive dataset are rich resources for improving library services.

### **How will LibQUAL+® benefit your library?**

Library administrators have successfully used LibQUAL+® survey data to identify best practices, analyze deficits, and effectively allocate resources. Benefits to participating institutions include:

- Institutional data and reports that enable you to assess whether your library services are meeting user expectations
- Aggregate data and reports that allow you to compare your library's performance with that of peer institutions
- Workshops designed for participants
- Access to an online library of LibQUAL+® research articles
- The opportunity to become part of a community interested in developing excellence in library services

LibQUAL+® gives your library users a chance to tell you where your services need improvement so you can respond to and better manage their expectations. You can develop services that better meet your users' expectations by comparing your library's data with that of peer institutions and examining the practices of those libraries that are evaluated highly by their users.

### **How is the LibQUAL+® survey conducted?**



Conducting the LibQUAL+® survey requires little technical expertise on your part. You invite your users to take the survey by distributing the URL for your library's Web form via e-mail. Respondents complete the survey form and their answers are sent to a central database. The data are analyzed and presented to you in reports describing your users' desired, perceived, and minimum expectations of service.

**What are the origins of the LibQUAL+® survey?**

The LibQUAL+® survey evolved from a conceptual model based on the SERVQUAL instrument, a popular tool for assessing service quality in the private sector. The Texas A&M University Libraries and other libraries used modified SERVQUAL instruments for several years; those applications revealed the need for a newly adapted tool that would serve the particular requirements of libraries. ARL, representing the largest research libraries in North America, partnered with Texas A&M University Libraries to develop, test, and refine LibQUAL+®. This effort was supported in part by a three-year grant from the U.S. Department of Education's Fund for the Improvement of Post-Secondary Education (FIPSE).

## 1.4 Web Access to Data

Data summaries from the 2008 iteration of the LibQUAL+® survey will be available to project participants online via the LibQUAL+® survey management site:

**<<http://www.libqual.org/Manage/Results/index.cfm>>**

## 1.5 Explanation of Charts and Tables

A working knowledge of how to read and derive relevant information from the tables and charts used in your LibQUAL+® results notebook is essential. In addition to the explanatory text below, you can find a self-paced tutorial on the project web site at:

[<http://www.libqual.org/Information/Tools/index.cfm>](http://www.libqual.org/Information/Tools/index.cfm)

Both the online tutorial and the text below are designed to help you understand your survey results and present and explain those results to others at your library.

### **Radar Charts**

Radar charts are commonly used throughout the following pages to display both aggregate results and results from individual institutions. Basic information about radar charts is outlined below, and additional descriptive information is included throughout this notebook.

#### **What is a radar chart?**

Radar charts are useful when you want to look at several different factors all related to one item. Sometimes called “spider charts” or “polar charts”, radar charts feature multiple axes or “spokes” along which data can be plotted. Variations in the data are shown by distance from the center of the chart. Lines connect the data points for each series, forming a spiral around the center.

In the case of the LibQUAL+® survey results, each axis represents a different survey question. Questions are identified by a code at the end of each axis. The three dimensions measured by the survey are grouped together on the radar charts, and each dimension is labeled: Affect of Service (AS), Information Control (IC), and Library as Place (LP).

Radar charts are used in this notebook to present the item summaries (the results from the 22 core survey questions).

#### **How to read a radar chart**

Radar charts are an effective way to show strengths and weaknesses graphically by enabling you to observe symmetry or uniformity of data. Points close to the center indicate a low value, while points near the edge indicate a high value. When interpreting a radar chart, it is important to check each individual axis as well as the chart’s overall shape in order to gain a complete understanding of its meaning. You can see how much data fluctuates by observing whether the spiral is smooth or has spikes of variability.

Respondents’ minimum, desired, and perceived levels of service quality are plotted on each axis of your LibQUAL+® radar charts. The resulting “gaps” between the three levels are shaded in blue, yellow, green, and red. Generally, a radar graph shaded blue and yellow indicates that users’ perceptions of service fall within the “zone of tolerance”; the distance between minimum expectations and perceptions of service quality is shaded in blue, and the distance between their desired and perceived levels of service quality is shown in yellow. When users’ perceptions fall outside the “zone of tolerance,” the graph will include areas of red and green shading. If the distance between users’ minimum expectations and perceptions of service delivery is represented in red, that indicates a negative service adequacy gap score. If the distance between the desired level of service and perceptions of service delivery is represented in green, that indicates a positive service superiority gap score.

**Means**

The mean of a collection of numbers is their arithmetic average, computed by adding them up and dividing by their total number.

In this notebook, means are provided for users' minimum, desired, and perceived levels of service quality for each item on the LibQUAL+® survey. Means are also provided for the general satisfaction and information literacy outcomes questions.

**Standard Deviation**

Standard deviation is a measure of the spread of data around their mean. The standard deviation (SD) depends on calculating the average distance of each score from the mean.

In this notebook, standard deviations are provided for every mean presented in the tables.

**Service Adequacy**

The service adequacy gap score is calculated by subtracting the minimum score from the perceived score on any given question, for each user. Both means and standard deviations are provided for service adequacy gap scores on each item of the survey, as well as for each of the three dimensions of library service quality. In general, service adequacy is an indicator of the extent to which you are meeting the minimum expectations of your users. A negative service adequacy gap score indicates that your users' perceived level of service quality is below their minimum level of service quality and is printed in red.

**Service Superiority**

The service superiority gap score is calculated by subtracting the desired score from the perceived score on any given question, for each user. Both means and standard deviations are provided for service superiority gap scores on each item of the survey, as well as for each of the three dimensions of library service quality. In general, service superiority is an indicator of the extent to which you are exceeding the desired expectations of your users. A positive service superiority gap score indicates that your users' perceived level of service quality is above their desired level of service quality and is printed in green.

Sections with charts and tables are omitted from the following pages when there are three or fewer individuals in a specific group.

In consortia notebooks, institution type summaries are not shown if there is only one library for an institution type. Individual library notebooks are produced separately for each participant.

## 1.6 A Few Words about LibQUAL+® 2008

Libraries today confront escalating pressure to demonstrate impact. As Cullen (2001) has noted,

Academic libraries are currently facing their greatest challenge since the explosion in tertiary education and academic publishing which began after World War II... [T]he emergence of the virtual university, supported by the virtual library, calls into question many of our basic assumptions about the role of the academic library, and the security of its future. Retaining and growing their customer base, and focusing more energy on meeting their customers' expectations is the only way for academic libraries to survive in this volatile environment. (pp. 662-663)

Today, "A measure of library quality based solely on collections has become obsolete" (Nitecki, 1996, p. 181). These considerations have prompted the Association of Research Libraries (ARL) to sponsor a number of "New Measures" initiatives. The New Measures efforts represent a collective determination on the part of the ARL membership to augment the collection-count and fiscal input measures that comprise the ARL Index and ARL Statistics, to date the most consistently collected statistics for research libraries, with outcome measures such as assessments of service quality and satisfaction. One New Measures Initiative is the LibQUAL+® service (Cook, Heath & B. Thompson, 2002, 2003; Heath, Cook, Kyrillidou & Thompson, 2002; Thompson, Cook & Heath, 2003; Thompson, Cook & Thompson, 2002).

Within a service-quality assessment model, "only customers judge quality; all other judgments are **essentially irrelevant**" (Zeithaml, Parasuraman, Berry, 1990, p. 16). LibQUAL+® was modeled on the 22-item SERVQUAL tool developed by Parasuraman, Berry and Zeithaml (Parasuraman, Berry & Zeithaml, 1991). However, SERVQUAL has been shown to measure some issues not particularly relevant in libraries, and to not measure some issues of considerable interest to library users.

The final 22 LibQUAL+® items were developed through several iterations of studies involving a larger pool of 56 items. The selection of items employed in the LibQUAL+® survey has been grounded in the *users' perspective* as revealed in a series of qualitative studies involving a larger pool of items. The items were identified following qualitative research interviews with student and faculty library users at several different universities (Cook, 2002a; Cook & Heath, 2001).

LibQUAL+® is **not** just a list of 22 standardized items. First, LibQUAL+® offers libraries the ability to select five optional local service quality assessment items. Second, the survey includes a comments box soliciting open-ended user views. *Almost half of the people responding to the LibQUAL+® survey provide valuable feedback through the comments box.* These open-ended comments are helpful for not only (a) understanding **why** users provide certain ratings, but also (b) understanding **what policy changes** users suggest, because many users feel the obligation to be constructive. Participating libraries are finding the real-time access to user comments one of the most useful devices in challenging library administrators to think outside of the box and develop innovative ways for improving library services.

LibQUAL+® is one of 11 ways of listening to users, called a *total market survey*. As Berry (1995) explained,

When well designed and executed, total market surveys provide a range of information unmatched by any other method... A critical facet of total market surveys (and the reason for using the word 'total') is the measurement of competitors' service quality. This [also] requires

using non-customers in the sample to rate the service of their suppliers. (p. 37)

Although (a) measuring perceptions of both users and non-users, and (b) collecting perceptions data with regard to peer institutions can provide important insights Berry recommended using multiple listening methods and emphasized that "Ongoing data collection... is a necessity. Transactional surveys, total market surveys, and employee research should always be included" (Berry, 1995, p. 54).

### Score Scaling

"Perceived" scores on the 22 LibQUAL+® core items, the three subscales, and the total score, are all scaled 1 to 9, with 9 being the most favorable. Both the gap scores ("Adequacy" = "Perceived" - "Minimum"; "Superiority" = "Perceived" - "Desired") are scaled such that higher scores are more favorable. Thus, an *adequacy* gap score of +1.2 on an item, subscale, or total score is better than an adequacy gap score of +1.0. A *superiority* gap score of -0.5 on an item, subscale, or total score is better than a superiority gap score of -1.0.

### Using LibQUAL+® Data

In some cases LibQUAL+® data may confirm prior expectations and library staff will readily formulate action plans to remedy perceived deficiencies. But in many cases library decision-makers will seek additional information to corroborate interpretations or to better understand the dynamics underlying user perceptions.

For example, once an interpretation is formulated, library staff might review recent submissions of users to suggestion boxes to evaluate whether LibQUAL+® data are consistent with interpretations, and the suggestion box data perhaps also provide user suggestions for remedies. User focus groups also provide a powerful way to explore problems and potential solutions. A university-wide retreat with a small-group facilitated discussion to solicit suggestions for improvement is another follow-up mechanism that has been implemented in several LibQUAL+® participating libraries.

Indeed, the open-ended comments gathered as part of LibQUAL+® are themselves useful in fleshing out insights into perceived library service quality. Respondents often use the comments box on the survey to make constructive suggestions on specific ways to address their concerns. Qualitative analysis of these comments can be very fruitful. In short, LibQUAL+® is not 22 items. LibQUAL+® is 22 items plus a comments box!

Cook (2002b) provided case study reports of how staff at various libraries have employed data from prior renditions of LibQUAL+®. Heath, Kyriallidou, and Askew edited a special issue of the *Journal of Library Administration* (Vol. 40, No. 3/4) reporting additional case studies on the use of LibQUAL+® data to aid the improvement of library service quality. This special issue has also been published by Hayworth Press as a monograph. These publications can be ordered by sending an email to [libqual@arl.org](mailto:libqual@arl.org).

### 2008 Data Screening

The 22 LibQUAL+® core items measure perceptions of total service quality, as well as three sub-dimensions of perceived library quality: (a) *Service Affect* (9 items, such as "willingness to help users"); (b) *Information Control* (8 items, such as "a library Web site enabling me to locate information on my own" and "print and/or electronic journal collections I require for my work"); and (c) *Library as Place* (5 items, such as "a getaway for study, learning, or research").

However, as happens in any survey, in 2008 some users provided incomplete data, inconsistent data, or both. In

compiling the summary data reported here, several criteria were used to determine which respondents to omit from these analyses.

**1. Complete Data.** The Web software that presents the 22 core items monitors whether a given user has completed all items. On each of these items, in order to submit the survey successfully, users must provide a rating of (a) minimally-acceptable service, (b) desired service, and (c) perceived service or rate the item "not applicable" ("N/A"). If these conditions are not met, when the user attempts to leave the Web page presenting the 22 core items, the software shows the user where missing data are located, and requests complete data. The user may of course abandon the survey without completing all the items. *Only records with complete data on the 22 items and where respondents chose a "user group," if applicable, were retained in summary statistics.*

**2. Excessive "N/A" Responses.** Because some institutions provided access to a lottery drawing for an incentive (e.g., a iPod) for completing the survey, some users might have selected "N/A" choices for all or most of the items rather than reporting their actual perceptions. Or, some users may have views on such a narrow range of quality issues that their data are not very informative. *In this survey it was decided that records containing more than 11 "N/A" responses should be eliminated from the summary statistics.*

**3. Excessive Inconsistent Responses.** On the LibQUAL+® survey, user perceptions can be interpreted by locating "perceived" results within the "zone of tolerance" defined by data from the "minimum" and the "desired" ratings. For example, a mean "perceived" rating of 7.5 on the 1-to-9 (9 is highest) scale might be very good if the mean "desired" rating is 6.0. But a 7.5 perception score is less satisfactory if the mean "desired" rating is 8.6, or if the mean "minimum" rating is 7.7.

One appealing feature of such a "gap measurement model" is that the rating format provides a check for inconsistencies (i.e., score inversions) in the response data (Thompson, Cook & Heath, 2000). Logically, on a given item the "minimum" rating should not be higher than the "desired" rating on the same item. For each user a count of such inconsistencies, ranging from "0" to "22," was made. *Records containing more than 9 logical inconsistencies were eliminated from the summary statistics.*

### **LibQUAL+® Norms**

An important way to interpret LibQUAL+® data is by examining the zones of tolerance for items, the three subscale scores, and the total scores. However, the collection of such a huge number of user perceptions has afforded us with the unique opportunity to create norms tables that provide yet another perspective on results.

Norms tell us how scores "stack up" within a particular user group. For example, on the 1-to-9 (9 is highest) scale, users might provide a mean "perceived" rating of 6.5 on an item, "the printed library materials I need for my work." The same users might provide a mean rating on "minimum" for this item of 7.0, and a mean service-adequacy "gap score" (i.e., "perceived" minus "minimum") of -0.5.

The zone-of-tolerance perspective suggests that this library is not doing well on this item, because "perceived" falls below "minimally acceptable." This is important to know. But there is also a second way (i.e., normatively) to interpret the data. Both perspectives can be valuable.

A total market survey administered to more than 100,000 users, as was LibQUAL+® in 2004 and 2005, affords the opportunity to ask normative questions such as, "How does a mean 'perceived' score of 6.5 stack up among all

individual users who completed the survey?", or "How does a mean service-adequacy gap score of -0.5 stack up among the gap scores of all institutions participating in the survey?"

If 70 percent of individual users generated "perceived" ratings lower than 6.5, 6.5 might not be so bad. And if 90 percent of institutions had service-adequacy gap scores lower than -0.5 (e.g., -0.7, -1.1), a mean gap score of -0.5 might actually be quite good. Users simply may have quite high expectations in this area. They may also communicate their dissatisfaction by rating both (a) "perceived" lower and (b) "minimum" higher.

This does not mean that a service-adequacy gap score of -0.5 is necessarily a cause for celebration. But a service-adequacy gap score of -0.5 on an item for which 90 percent of institutions have a lower gap score is a different gap score than the same -0.5 for a different item in which 90 percent of institutions have a higher service-adequacy gap score.

Only norms give us insight into this comparative perspective. And a local user-satisfaction survey (as against a total market survey) can never provide this insight.

**Common Misconception Regarding Norms.** An unfortunate and incorrect misconception is that norms make value statements. Norms do not make value statements! Norms make fact statements. If you are a forest ranger, and you make \$25,000 a year, a norms table might inform you of the fact that you make less money than 85 percent of the adults in the United States.

But if you love the outdoors, you do not care very much about money, and you are very service-oriented, this fact statement might not be relevant to you. Or, in the context of your values, you might interpret this fact as being quite satisfactory.

**LibQUAL+® Norms Tables.** Of course, the fact statements made by the LibQUAL+® norms are only valuable if you care about the dimensions being evaluated by the measure. More background on LibQUAL+® norms is provided by Cook and Thompson (2001), and Cook, Heath and B. Thompson (2002). LibQUAL+® norms for earlier years are available on the Web at the following URLs:

<<http://www.coe.tamu.edu/~bthompson/libq2005.htm>>

<<http://www.coe.tamu.edu/~bthompson/libq2004.htm>>

### Response Rates

At the American Library Association (ALA) Midwinter Meeting in San Antonio in January 2000, participants were cautioned that response rates on the final LibQUAL+® survey would probably range from 25-33 percent. Higher response rates can be realized (a) with shorter surveys that (b) are directly action-oriented (Cook, Heath & R.L. Thompson, 2000). For example, a very high response rate could be realized by a library director administering the following one-item survey to users:

**Instructions.** Please tell us what time to close the library every day. In the future **we will close at whatever time receives the most votes.**

Should we close the library at?

(A) 10 p.m.            (B) 11 p.m.            (C) midnight            (D) 2 p.m.



Lower response rates will be expected for total market surveys measuring general perceptions of users across institutions, and when an intentional effort is made to solicit perceptions of both users and non-users. Two considerations should govern the evaluation of LibQUAL+® response rates.

**Minimum Response Rates.** Response rates are computed by dividing the number of completed surveys at an institution by the number of persons asked to complete the survey. However, we do not know the actual response rates on LibQUAL+®, because we do not know the correct denominators for these calculations.

For example, given inadequacy in records at schools, we are not sure how many e-mail addresses for users are accurate. And we do not know how many messages to invite participation were actually opened. In other words, what we know for LibQUAL+® is the "lower-bound estimate" of response rates.

For example, if 200 out of 800 solicitations result in completed surveys, we know that the response rate is at least 25 percent. But because we are not sure whether 800 e-mail addresses were correct or that 800 e-mail messages were opened, we are not sure that 800 is the correct denominator. The response rate involving only correct e-mail addresses might be 35 or 45 percent. We don't know the exact response rate.

**Representativeness Versus Response Rate.** If 100 percent of the 800 people we randomly selected to complete our survey did so, then we can be assured that the results are representative of all users. But if only 25 percent of the 800 users complete the survey, the representativeness of the results is not assured. Nor is unrepresentativeness assured.

Representativeness is actually a matter of degree. And several institutions each with 25 percent response rates may have data with different degrees of representativeness.

We can never be sure about how representative our data are as long as not everyone completes the survey. But we can at least address this concern by comparing the demographic profiles of survey completers with the population (Thompson, 2000). At which university below would one feel more confident that LibQUAL+® results were reasonably representative?

**Alpha University**

Completers (n=200 / 800) Gender Students 53% female Faculty 45% female Disciplines Liberal Arts 40% Science 15% Other 45%	Population (N=16,000) Gender Students 51% female Faculty 41% female Disciplines Liberal Arts 35% Science 20% Other 45%
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**Omega University**

Completers (n=200 / 800) Gender Students 35% female Faculty 65% female Disciplines Liberal Arts 40% Science 20% Other 40%	Population (N=23,000) Gender Students 59% female Faculty 43% female Disciplines Liberal Arts 15% Science 35% Other 50%
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The persuasiveness of such analyses is greater as the number of variables used in the comparisons is greater. The LibQUAL+® software has been expanded to automate these comparisons and to output side-by-side graphs and tables comparing sample and population profiles for given institutions. Show these to people who question result representativeness.

However, one caution is in order regarding percentages. When total  $n$  is small for an institution, or within a particular subgroup, huge changes in percentages can result from very small shifts in numbers.

### **LibQUAL+® Interactive Statistics**

In addition to the institution and group notebooks and the norms, LibQUAL+® has also provided an interactive environment for data analysis where institutions can mine institutional data for peer comparisons in 2003 and 2004. The LibQUAL+® Interactive Statistics for these years includes graphing capabilities for all LibQUAL+® scores (total and dimension scores) for each individual institution or groups of institutions. Graphs may be generated in either JPEG format for presentation purposes or flash format that includes more detailed information for online browsing. Tables may also be produced in an interactive fashion for one or multiple selections of variables for all individual institutions or groups of participating institutions. To access the LibQUAL+® Interactive Statistics online, go to:

[<http://www.libqual.org/Manage/Results/index.cfm>](http://www.libqual.org/Manage/Results/index.cfm)

### **LibQUAL+® Analytics**

The LibQUAL+® Analytics is a new tool that permits participants to dynamically create institution-specific tables and charts for different subgroups and across years. The current interface grants access to 2004-2006 statistical data and has two sections:

- (a) **Institution Explorer** includes a summary of all questions and dimension means for any combination of user groups and disciplines.
- (b) **Longitudinal Analysis** allows participants to perform longitudinal comparisons of their data across survey years.

These two functionalities are only the beginning of our effort to provide more customized analysis. More features are in development based on feedback we receive from our participants.

### **Survey Data**

In addition to the notebooks, the norms, the Interactive Statistics, and the Analytics, LibQUAL+® also makes available (a) raw survey data in SPSS at the request of participating libraries, and (b) raw survey data in Excel for all participating libraries. Additional training using the SPSS data file is available as a follow-up workshop and through the Service Quality Evaluation Academy (see below), which also offers training on analyzing qualitative data. The survey comments are also downloadable in Excel format from the Web site.

### **ARL Service Quality Evaluation Academy**

LibQUAL+® is an important tool in the New Measures toolbox that librarians can use to improve service quality. But, even more fundamentally, the LibQUAL+® initiative is more than a single tool. LibQUAL+® is an effort to create a culture of data-driven service quality assessment and service quality improvement within libraries.

Such a culture must be informed by more than one tool, and by more than only one of the 11 ways of listening to users. To facilitate a culture of service quality assessment, and to facilitate more informed usage of LibQUAL+® data, the Association of Research Libraries has created the ARL Service Quality Evaluation Academy. For more information about the Academy, see the LibQUAL+® events page at

<http://www.libqual.org/Events/index.cfm>

The intensive, five-day Academy teaches both qualitative and quantitative skills that library staff can use to evaluate and generate service-quality assessment information. The Academy is one more resource for library staff who would like to develop enhanced service-quality assessment skills.

For more information, about LibQUAL+® or the Association of Research Libraries' Statistics and Measurement program, see:

<http://www.libqual.org>

<http://www.statsqual.org>

<http://www.arl.org/stats>

## References

Berry, L.L. *On Great Service: A Framework For Action*. New York: The Free Press, 1995.

Cook, Colleen C., Fred Heath, and Bruce Thompson. LibQUAL+™ from the UK Perspective. 5th Northumbria International Conference Proceedings, Durham, UK, July, 2003.

Cook, Colleen C. (Guest Ed.). "Library Decision-Makers Speak to Their Uses of Their LibQUAL+™ Data: Some LibQUAL+™ Case Studies." *Performance Measurement and Metrics*, 3 (2002b).

Cook, Colleen C. "A Mixed-Methods Approach to the Identification and Measurement of Academic Library Service Quality Constructs: LibQUAL+™." (PhD diss., Texas A&M University, 2001) *Dissertation Abstracts International*, 62 (2002A): 2295A (University Microfilms No. AAT3020024).

Cook, Colleen C., and Fred Heath. "Users' Perceptions of Library Service Quality: A 'LibQUAL+™' Qualitative Study." *Library Trends*, 49 (2001): 548-84.

Cook, Colleen C., Fred Heath, and Bruce Thompson. "'Zones of tolerance' in Perceptions of Library Service Quality: A LibQUAL+™ Study." *portal: Libraries and the Academy*, 3 (2003): 113-123.

Cook, Colleen C., Fred Heath and Bruce Thompson.. "Score Norms for Improving Library Service Quality: A LibQUAL+™ Study." *portal: Libraries and the Academy*, 2 (2002): 13-26.

Cook, Colleen C., Fred Heath, and Russell L. Thompson. "A Meta-Analysis of Response Rates in Web- or Internet-based Surveys." *Educational and Psychological Measurement*, 60 (2000): 821-36.

Cook, Colleen C., and Bruce Thompson. "Psychometric Properties of Scores from the Web-based LibQUAL+™ Study of Perceptions of Library Service Quality." *Library Trends*, 49 (2001): 585-604.

- Cullen, Rowena. "Perspectives on User Satisfaction Surveys." *Library Trends*, 49 (2002): 662-86.
- Heath, F., Martha Kyrillidou, and Consuella A. Askew (Guest Eds.). "Libraries Report on Their LibQUAL+® Findings: From Data to Action." *Journal of Library Administration* 40 (3/4) (2004).
- Heath, F., Colleen C. Cook, Martha Kyrillidou, and Bruce Thompson. "ARL Index and Other Validity Correlates of LibQUAL+™ Scores." *portal: Libraries and the Academy*, 2 (2002): 27-42.
- Kyrillidou, M. *The Globalization of Library Assessment and the Role of LibQUAL+®. From Library Science to Information Science: Studies in Honor of G. Kakouri* (Athens, Greece: Tipothito-Giorgos Dardanos, 2005). [In Greek]
- Kyrillidou, Martha. "Library Assessment As A Collaborative Enterprise." *Resource Sharing and Information Networks*, 18 ½ (2005-2006): 73-87.
- Kyrillidou, Martha. (2006). "Measuring Library Service Quality: A Perceived Outcome for Libraries. This chapter appears in *Revisiting Outcomes Assessment in Higher Education*. Edited by Peter Hernon, Robert E. Dugan, and Candy Schwartz (Westport, CT: Library Unlimited, 2006): 351-66.
- Kyrillidou, M., Terry Olshen, Fred Heath, Claude Bonnelly, and Jean-Pierre Côte. "Cross-Cultural Implementation of LibQUAL+™: the French Language Experience. *5th Northumbria International Conference Proceedings* (Durham, UK, 2003): 193-99.
- Kyrillidou, M. and Mark Young. *ARL Statistics 2003-04*. Washington, DC: Association of Research Libraries, 2005.
- Nitecki, D.A. "Changing the Concept and Measure of Service Quality in Academic Libraries." *The Journal of Academic Librarianship*, 22 (1996): 181-90.
- Parasuraman, A., Leonard Berry, and Valerie Zeithaml. "Refinement and Reassessment of the SERVQUAL Scale." *Journal of Retailing*, 67 (1991): 420-50.
- Thompson, B. "Representativeness Versus Response Rate: It Ain't the Response Rate!." Paper presented at the Association of Research Libraries (ARL) Measuring Service Quality Symposium on the New Culture of Assessment: Measuring Service Quality, Washington, DC, October 2002.
- Thompson, B., Colleen C. Cook, and Fred Heath. "The LibQUAL+™ Gap Measurement Model: The Bad, the Ugly, and the Good of Gap Measurement." *Performance Measurement and Metrics*, 1 (2002): 165-78.
- Thompson, B., Colleen C. Cook, and Fred Heath. "Structure of Perceptions of Service Quality in Libraries: A LibQUAL+™ Study." *Structural Equation Modeling*, 10 (2003): 456-464.
- Thompson, B., Colleen C. Cook, and Russell L. Thompson. Reliability and Structure of LibQUAL+™ Scores: Measuring Perceived Library Service Quality. *portal: Libraries and the Academy*, 2 (2002): 3-12.
- Thompson, B., Cook, C., & Kyrillidou, M. (2005). Concurrent validity of LibQUAL+® scores: What do LibQUAL+® scores measure? *Journal of Academic Librarianship*, 31: 517-22.

- Thompson, B., Colleen C. Cook, and Kyrillidou, M. "Using Localized Survey Items to Augment Standardized Benchmarking Measures: A LibQUAL+® Study." *portal: Libraries and the Academy*, 6(2) (2006): 219-30.
- Thompson, B., Colleen C. Cook, and Martha Kyrillidou. "Stability of Library Service Quality Benchmarking Norms Across Time and Cohorts: A LibQUAL+® Study." Paper presented at the Asia-Pacific Conference of Library and Information Education and Practice (A-LIEP), Singapore, April 3-4 2006.
- Thompson, B., Colleen C. Cook, and Martha Kyrillidou. "How Can You Evaluate the Integrity of Your Library Assessment Data: Intercontinental LibQUAL+® Analysis Used as Concrete Heuristic Examples." Paper presented at the Library Assessment Conference: Building Effective, Sustainable, and Practical Assessment, Charlottesville, VA, August 4-6, 2006.
- Zeithaml, Valerie, A. Parasuraman, and Leonard L. Berry. *Delivering Quality Service: Balancing Customer Perceptions and Expectations*. New York: Free Press, 1990.

## 2 Respondents by Institution for ARL

Below is a listing of all the ARL institutions that participated in the 2008 LibQUAL+® survey. Where applicable, they have been separated out by library type (e.g. Academic Health Sciences, Academic Law, College or University). The number of respondents from each institution and the percentage of the total number of ARL respondents that they represent are provided.

Institution		Respondents n	Respondents %
<b>Academic Law</b>			
1)	Howard W. Hunter Law Library	198	0.95%
<b>Sub Total:</b>		<b>198</b>	<b>0.95%</b>
<b>College or University</b>			
2)	Brigham Young University	1,631	7.83%
3)	Brown University Library	1,595	7.66%
4)	Case Western Reserve University	561	2.69%
5)	Dartmouth College Library	303	1.46%
6)	Harvard Divinity School	122	0.59%
7)	McGill University Library	1,085	5.21%
8)	Ohio State University Libraries	469	2.25%
9)	Oklahoma State University	2,611	12.54%
10)	Penn State University Libraries	2,414	11.59%
11)	Purdue University	1,302	6.25%
12)	Texas A&M University, College Station	935	4.49%
13)	Texas A&M University, Galveston	170	0.82%
14)	University of Alberta Libraries	150	0.72%
15)	University of Alberta Libraries - French	63	0.30%
16)	University of Arizona Library	484	2.32%
17)	University of California Riverside	1,370	6.58%
18)	University of Connecticut Libraries	2,781	13.36%
19)	University of Houston Libraries	205	0.98%
20)	University of Illinois at Urbana-Champaign	739	3.55%
21)	University of Southern California	856	4.11%
22)	University of Texas at Austin	777	3.73%
<b>Sub Total:</b>		<b>20,623</b>	<b>99.05%</b>
<b>Grand Total:</b>		<b>20,821</b>	<b>100.00%</b>

Language: American English

Institution Type: All

Consortium: ARL

User Group: All

### 3 College or University Libraries Demographic Summary for ARL

#### 3.1 Respondents by User Group

User Group	Respondent n	Respondent %
<b>Undergraduate</b>		
First year	2,463	11.94%
Second year	2,391	11.59%
Third year	2,375	11.52%
Fourth year	2,318	11.24%
Fifth year and above	678	3.29%
Non-degree	61	0.30%
<b>Sub Total:</b>	<b>10,286</b>	<b>49.88%</b>
<b>Graduate</b>		
Masters	2,640	12.80%
Doctoral	3,275	15.88%
Non-degree or Undecided	99	0.48%
<b>Sub Total:</b>	<b>6,014</b>	<b>29.16%</b>
<b>Faculty</b>		
Adjunct Faculty	228	1.11%
Assistant Professor	692	3.36%
Associate Professor	663	3.21%
Lecturer	233	1.13%
Professor	877	4.25%
Other Academic Status	246	1.19%
<b>Sub Total:</b>	<b>2,939</b>	<b>14.25%</b>
<b>Library Staff</b>		
Administrator	20	0.10%
Manager, Head of Unit	46	0.22%
Public Services	126	0.61%
Systems	10	0.05%
Technical Services	75	0.36%
Other	89	0.43%
<b>Sub Total:</b>	<b>366</b>	<b>1.77%</b>
<b>Staff</b>		
Research Staff	315	1.53%
Other staff positions	703	3.41%
<b>Sub Total:</b>	<b>1,018</b>	<b>4.94%</b>
<b>Total:</b>	<b>20,623</b>	<b>100.00%</b>

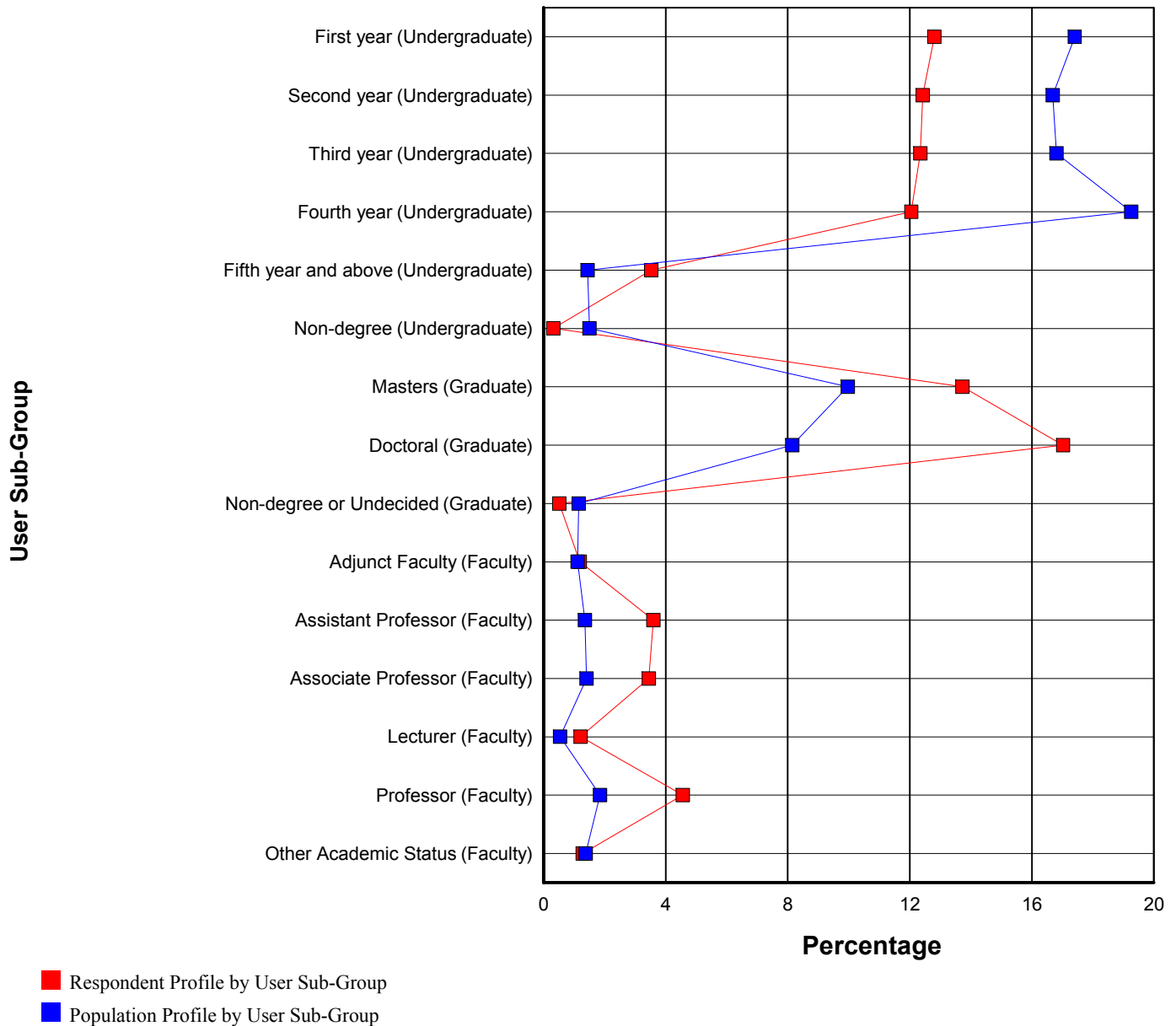
Language: American English  
 Institution Type: College or University  
 Consortium: ARL  
 User Group: All

### 3.2 Population and Respondent Profiles by User Sub-Group

The chart and table below show a breakdown of survey respondents by sub-group, based on user responses to the demographic questions and the demographic data provided by institutions in the online Representativeness section\*.

The chart maps percentage of respondents for each user subgroup in red. Population percentages for each user subgroup are mapped in blue. The table shows the number and percentage for each user sub-group, for both the general population (N) and survey respondents (n).

*\*Note: Participating institutions were not required to complete the Representativeness section. When population data is missing or incomplete, it is because this data was not provided.*



Language: American English  
 Institution Type: College or University  
 Consortium: ARL  
 User Group: All (Excluding Library Staff, Staff, Other Patrons)



User Sub-Group	Population N	Population %	Respondents n	Respondents %	%N - %n
First year (Undergraduate)	103,656	17.40%	2,463	12.80%	4.60%
Second year (Undergraduate)	99,380	16.69%	2,391	12.43%	4.26%
Third year (Undergraduate)	100,103	16.81%	2,375	12.34%	4.46%
Fourth year (Undergraduate)	114,691	19.26%	2,318	12.05%	7.21%
Fifth year and above (Undergraduate)	8,604	1.44%	678	3.52%	-2.08%
Non-degree (Undergraduate)	8,949	1.50%	61	0.32%	1.19%
Masters (Graduate)	59,363	9.97%	2,640	13.72%	-3.76%
Doctoral (Graduate)	48,511	8.14%	3,275	17.02%	-8.88%
Non-degree or Undecided (Graduate)	6,861	1.15%	99	0.51%	0.64%
Adjunct Faculty (Faculty)	6,649	1.12%	228	1.19%	-0.07%
Assistant Professor (Faculty)	8,059	1.35%	692	3.60%	-2.24%
Associate Professor (Faculty)	8,355	1.40%	663	3.45%	-2.04%
Lecturer (Faculty)	3,210	0.54%	233	1.21%	-0.67%
Professor (Faculty)	11,001	1.85%	877	4.56%	-2.71%
Other Academic Status (Faculty)	8,207	1.38%	246	1.28%	0.10%
<b>Total:</b>	<b>595,599</b>	<b>100.00%</b>	<b>19,239</b>	<b>100.00%</b>	<b>0.00%</b>

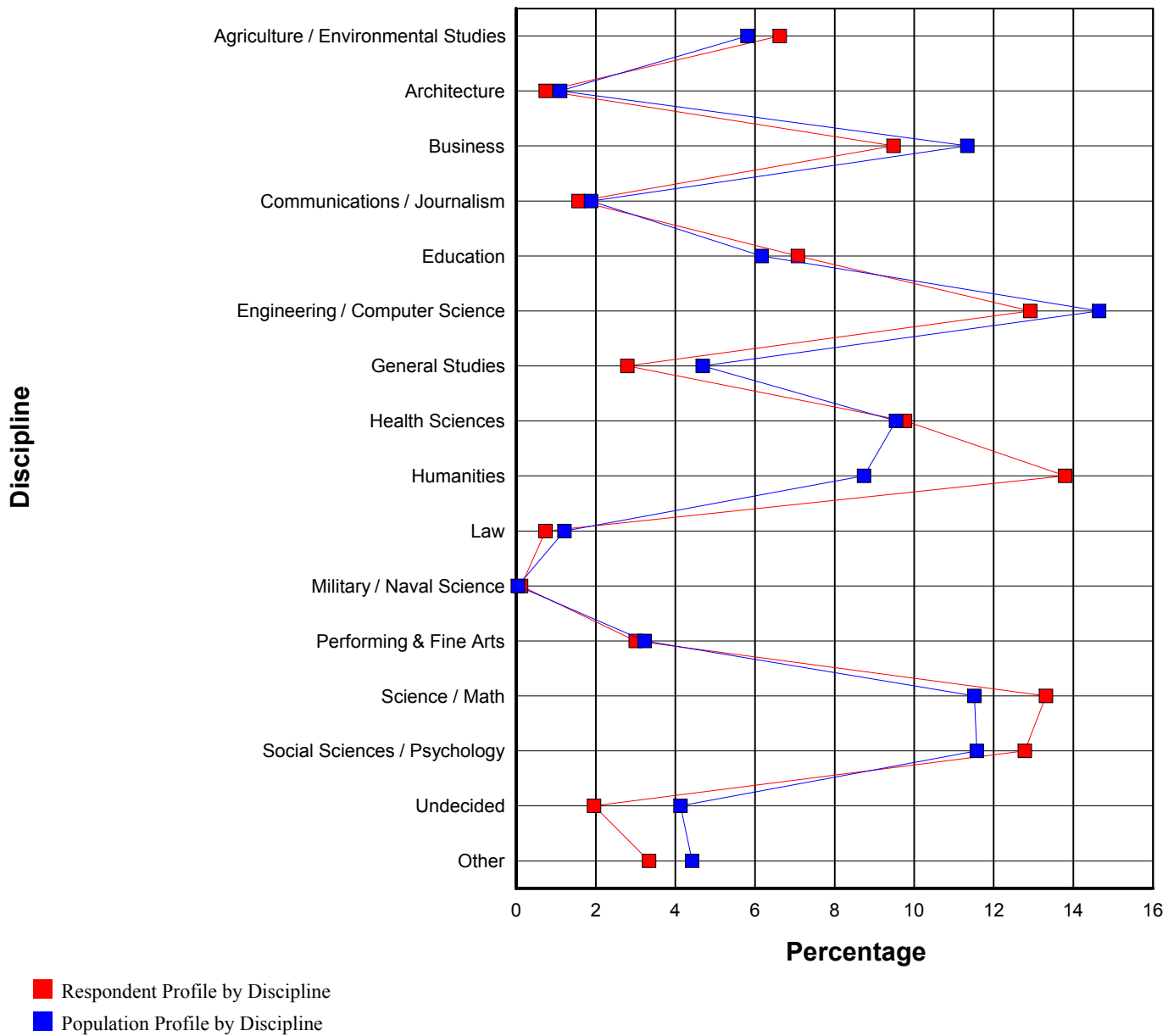
Language: American English  
Institution Type: College or University  
Consortium: ARL  
User Group: All (Excluding Library Staff, Staff, Other Patrons)

### 3.3 Population and Respondent Profiles by Standard Discipline

The chart and table below show a breakdown of survey respondents by standard discipline, based on user responses to the demographic questions and the demographic data provided by institutions in the online Representativeness section\*.

The chart maps percentage of respondents for each discipline in red. Population percentages for each discipline are mapped in blue. The table shows the number and percentage for each discipline, for both the general population (N) and survey respondents (n).

*\*Note: Participating institutions were not required to complete the Representativeness section. When population data is missing or incomplete, it is because this data was not provided.*



Language: American English  
 Institution Type: College or University  
 Consortium: ARL  
 User Group: All (Excluding Library Staff, Staff, Other Patrons)

<b>Discipline</b>	<b>Population N</b>	<b>Population %</b>	<b>Respondents n</b>	<b>Respondents %</b>	<b>%N - %n</b>
Agriculture / Environmental Studies	29,228	5.81%	1,273	6.62%	-0.81%
Architecture	5,527	1.10%	142	0.74%	0.36%
Business	57,013	11.33%	1,824	9.49%	1.85%
Communications / Journalism	9,435	1.88%	301	1.57%	0.31%
Education	30,997	6.16%	1,361	7.08%	-0.92%
Engineering / Computer Science	73,685	14.65%	2,484	12.92%	1.73%
General Studies	23,562	4.68%	537	2.79%	1.89%
Health Sciences	48,010	9.54%	1,879	9.77%	-0.23%
Humanities	43,975	8.74%	2,653	13.80%	-5.06%
Law	6,094	1.21%	141	0.73%	0.48%
Military / Naval Science	205	0.04%	23	0.12%	-0.08%
Performing & Fine Arts	16,225	3.23%	577	3.00%	0.22%
Science / Math	57,925	11.51%	2,560	13.31%	-1.80%
Social Sciences / Psychology	58,215	11.57%	2,457	12.78%	-1.21%
Undecided	20,754	4.13%	375	1.95%	2.18%
Other	22,238	4.42%	642	3.34%	1.08%
<b>Total:</b>	<b>503,088</b>	<b>100.00%</b>	<b>19,229</b>	<b>100.00%</b>	<b>0.00%</b>

Language: American English  
Institution Type: College or University  
Consortium: ARL  
User Group: All (Excluding Library Staff, Staff, Other Patrons)

### 3.4 Respondent Profile by Age:

This table shows a breakdown of survey respondents by age; both the number of respondents (n) and the percentage of the total number of respondents represented by each age group are displayed.

Age:	Respondents n	Respondents %
Under 18	51	0.25%
18 - 22	8,897	43.93%
23 - 30	5,361	26.47%
31 - 45	3,203	15.82%
46 - 65	2,473	12.21%
Over 65	267	1.32%
<b>Total:</b>	<b>20,252</b>	<b>100.00%</b>

### 3.5 Population and Respondent Profiles by Sex:

The table below shows a breakdown of survey respondents by sex, based on user responses to the demographic questions and the demographic data provided by institutions in the online Representativeness section\*. The number and percentage for each sex are given for the general population and for survey respondents.

\*Note: Participating institutions were not required to complete the Representativeness section. When population data is missing or incomplete, it is because this data was not provided.

Sex:	Population N	Population %	Respondents n	Respondents %
Male	321,440	51.94%	9,158	45.23%
Female	297,422	48.06%	11,088	54.77%
<b>Total:</b>	<b>618,862</b>	<b>100.00%</b>	<b>20,246</b>	<b>100.00%</b>

Language: American English

Institution Type: College or University

Consortium: ARL

User Group: All (Excluding Library Staff)

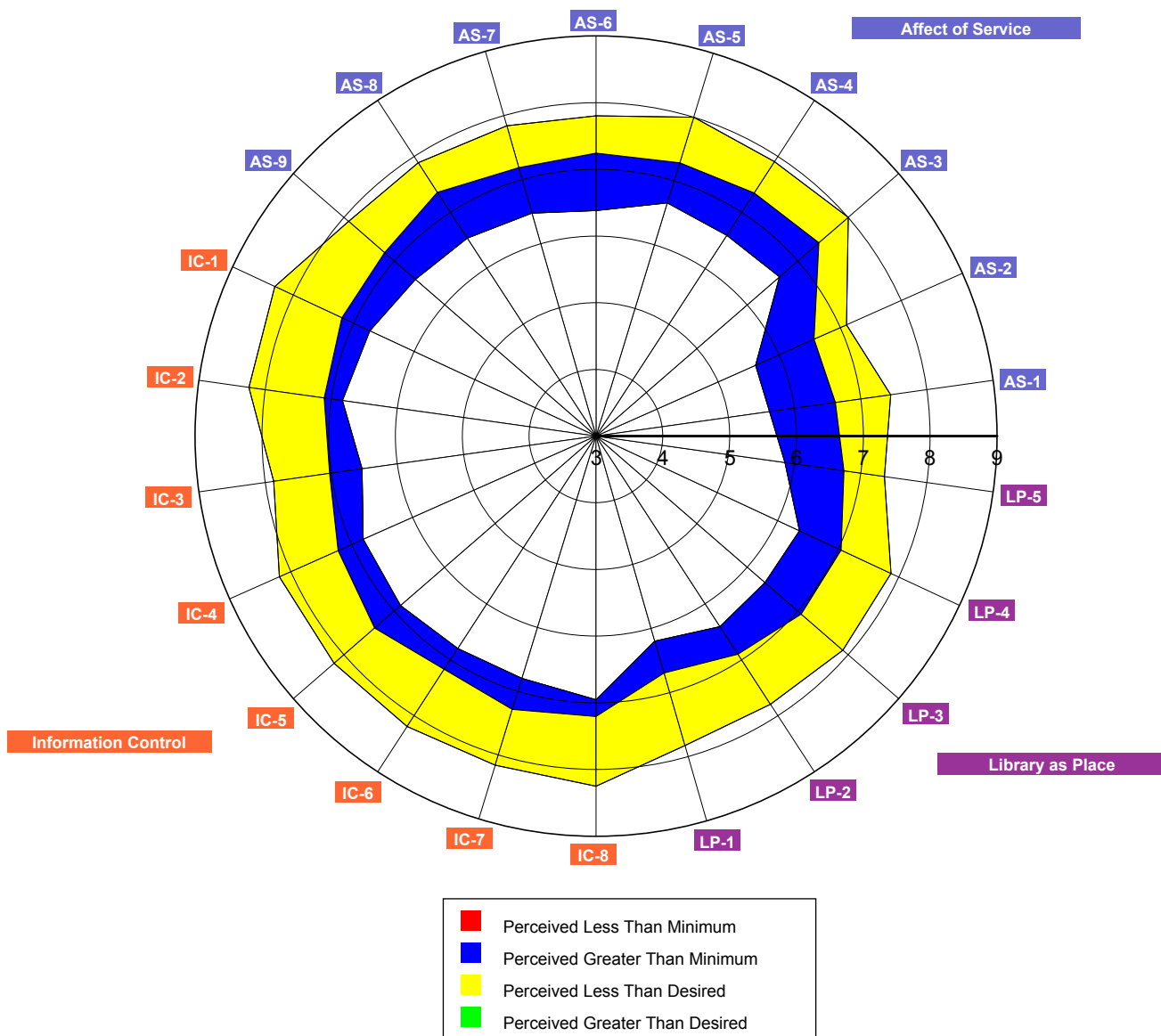
## 4 College or University Libraries Survey Item Summary for ARL

### 4.1 Core Questions Summary

This radar chart shows aggregate results for the core survey questions. Each axis represents one question. A code to identify each question is displayed at the outer point of each axis. While questions for each dimension of library service quality are scattered randomly throughout the survey, on this chart they are grouped into sections: Affect of Service, Library as Place, and Information Control.

On each axis, respondents' minimum, desired, and perceived levels of service quality are plotted, and the resulting "gaps" between the three levels (representing service adequacy and service superiority) are shaded in blue, yellow, green, and red.

The two following tables show mean scores and standard deviations for each question, where n is the number of respondents for each particular question. (For a more detailed explanation of the headings, see the Introduction to this notebook.)



Language: American English  
 Institution Type: College or University  
 Consortium: ARL  
 User Group: All (Excluding Library Staff)

ID	Question Text	Minimum Mean	Desired Mean	Perceived Mean	Adequacy Mean	Superiority Mean	n
<b>Affect of Service</b>							
AS-1	Employees who instill confidence in users	5.62	7.46	6.62	0.99	-0.84	19,065
AS-2	Giving users individual attention	5.62	7.11	6.57	0.96	-0.53	19,196
AS-3	Employees who are consistently courteous	6.64	8.00	7.42	0.78	-0.58	19,792
AS-4	Readiness to respond to users' questions	6.59	7.91	7.35	0.76	-0.56	19,202
AS-5	Employees who have the knowledge to answer user questions	6.66	8.00	7.29	0.63	-0.71	19,108
AS-6	Employees who deal with users in a caring fashion	6.38	7.80	7.24	0.86	-0.56	19,169
AS-7	Employees who understand the needs of their users	6.48	7.84	7.19	0.71	-0.65	18,957
AS-8	Willingness to help users	6.54	7.89	7.36	0.82	-0.53	19,191
AS-9	Dependability in handling users' service problems	6.58	7.91	7.19	0.61	-0.71	17,227
<b>Information Control</b>							
IC-1	Making electronic resources accessible from my home or office	6.73	8.30	7.20	0.46	-1.11	19,795
IC-2	A library Web site enabling me to locate information on my own	6.83	8.24	7.11	0.28	-1.13	20,012
IC-3	The printed library materials I need for my work	6.53	7.87	7.03	0.49	-0.84	18,497
IC-4	The electronic information resources I need	6.81	8.19	7.22	0.41	-0.96	19,770
IC-5	Modern equipment that lets me easily access needed information	6.88	8.20	7.39	0.51	-0.81	19,644
IC-6	Easy-to-use access tools that allow me to find things on my own	6.80	8.19	7.17	0.37	-1.02	19,786
IC-7	Making information easily accessible for independent use	6.80	8.16	7.28	0.49	-0.87	19,572
IC-8	Print and/or electronic journal collections I require for my work	6.95	8.25	7.20	0.25	-1.05	18,891
<b>Library as Place</b>							
LP-1	Library space that inspires study and learning	6.20	7.83	6.69	0.50	-1.13	19,407
LP-2	Quiet space for individual activities	6.41	7.80	6.90	0.49	-0.89	18,922
LP-3	A comfortable and inviting location	6.35	7.90	7.07	0.72	-0.82	19,578
LP-4	A getaway for study, learning, or research	6.36	7.87	7.05	0.68	-0.82	18,933
LP-5	Community space for group learning and group study	5.85	7.36	6.75	0.89	-0.61	17,383
<b>Overall:</b>		6.49	7.92	7.11	0.61	-0.82	20,257

Language: American English

Institution Type: College or University

Consortium: ARL

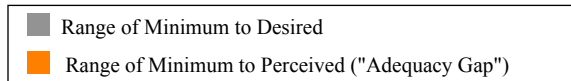
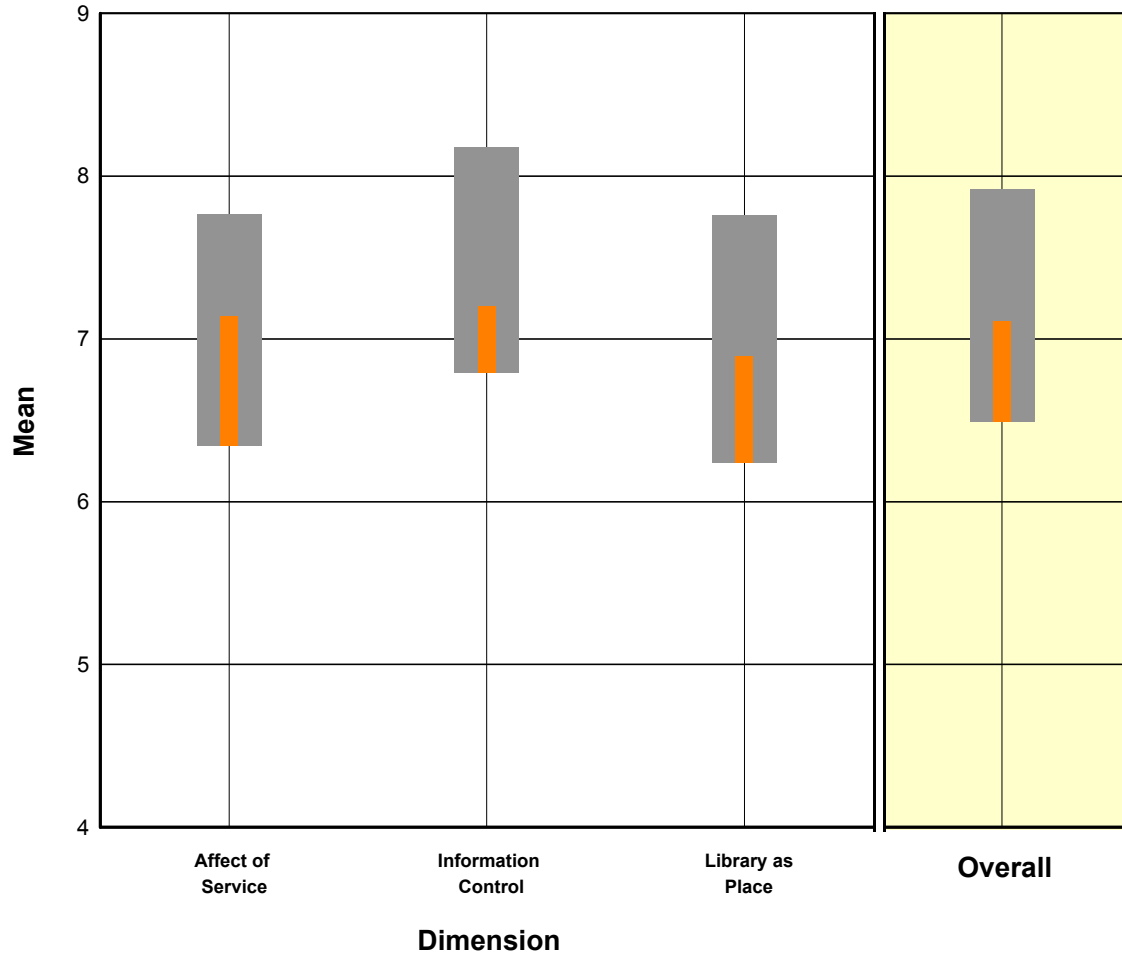
User Group: All (Excluding Library Staff)

ID	Question Text	Minimum SD	Desired SD	Perceived SD	Adequacy SD	Superiority SD	n
<b>Affect of Service</b>							
AS-1	Employees who instill confidence in users	1.86	1.57	1.65	1.86	1.71	19,065
AS-2	Giving users individual attention	2.02	1.78	1.78	1.86	1.72	19,196
AS-3	Employees who are consistently courteous	1.83	1.33	1.55	1.94	1.63	19,792
AS-4	Readiness to respond to users' questions	1.72	1.33	1.47	1.76	1.49	19,202
AS-5	Employees who have the knowledge to answer user questions	1.73	1.30	1.48	1.79	1.55	19,108
AS-6	Employees who deal with users in a caring fashion	1.85	1.43	1.52	1.84	1.58	19,169
AS-7	Employees who understand the needs of their users	1.78	1.37	1.49	1.79	1.55	18,957
AS-8	Willingness to help users	1.79	1.38	1.48	1.78	1.51	19,191
AS-9	Dependability in handling users' service problems	1.74	1.35	1.49	1.79	1.55	17,227
<b>Information Control</b>							
IC-1	Making electronic resources accessible from my home or office	1.79	1.20	1.64	2.01	1.74	19,795
IC-2	A library Web site enabling me to locate information on my own	1.71	1.19	1.60	1.98	1.72	20,012
IC-3	The printed library materials I need for my work	1.80	1.46	1.57	1.96	1.72	18,497
IC-4	The electronic information resources I need	1.68	1.22	1.44	1.85	1.57	19,770
IC-5	Modern equipment that lets me easily access needed information	1.67	1.18	1.42	1.79	1.49	19,644
IC-6	Easy-to-use access tools that allow me to find things on my own	1.66	1.17	1.47	1.86	1.59	19,786
IC-7	Making information easily accessible for independent use	1.65	1.17	1.41	1.81	1.51	19,572
IC-8	Print and/or electronic journal collections I require for my work	1.73	1.22	1.56	2.02	1.70	18,891
<b>Library as Place</b>							
LP-1	Library space that inspires study and learning	1.91	1.57	1.81	2.26	2.14	19,407
LP-2	Quiet space for individual activities	1.96	1.62	1.77	2.31	2.11	18,922
LP-3	A comfortable and inviting location	1.85	1.43	1.67	2.12	1.89	19,578
LP-4	A getaway for study, learning, or research	1.93	1.54	1.63	2.09	1.87	18,933
LP-5	Community space for group learning and group study	2.10	1.88	1.77	2.31	2.18	17,383
<b>Overall:</b>		1.38	0.94	1.12	1.40	1.14	20,257

Language: American English  
Institution Type: College or University  
Consortium: ARL  
User Group: All (Excluding Library Staff)

## 4.2 Core Question Dimensions Summary

On the chart below, scores for each dimension of library service quality have been plotted graphically. The exterior bars represent the range of minimum to desired mean scores for each dimension. The interior bars represent the range of minimum to perceived mean scores (the service adequacy gap) for each dimension of library service quality.



Language: American English  
 Institution Type: College or University  
 Consortium: ARL  
 User Group: All (Excluding Library Staff)



The following table displays mean scores for each dimension of library service quality measured by the LibQUAL+™ survey, where n is the number of respondents for each particular dimension. (For a more detailed explanation of the headings, see the Introduction to this notebook.) A complete listing of the survey questions and their dimensions can be found in Appendix A.

Dimension	Minimum Mean	Desired Mean	Perceived Mean	Adequacy Mean	Superiority Mean	n
Affect of Service	6.34	7.77	7.14	0.79	-0.63	20,212
Information Control	6.79	8.18	7.20	0.41	-0.98	20,256
Library as Place	6.24	7.76	6.89	0.65	-0.86	20,013
<b>Overall:</b>	6.49	7.92	7.11	0.61	-0.82	20,257

The following table displays standard deviation for each dimension of library service quality measured by the LibQUAL+® survey, where n is the number of respondents for each particular dimension. (For a more detailed explanation of the headings, see the Introduction to this notebook.) A complete listing of the survey questions and their dimensions can be found in Appendix A.

Dimension	Minimum SD	Desired SD	Perceived SD	Adequacy SD	Superiority SD	n
Affect of Service	1.86	1.46	1.58	1.83	1.59	20,212
Information Control	1.71	1.23	1.52	1.91	1.64	20,256
Library as Place	1.96	1.62	1.74	2.22	2.04	20,013
<b>Overall:</b>	1.38	0.94	1.12	1.40	1.14	20,257

Language: American English  
 Institution Type: College or University  
 Consortium: ARL  
 User Group: All (Excluding Library Staff)

### 4.3 Local Questions Summary

This table shows mean scores for each of the local questions added by the individual library or consortium, where n is the number of respondents for each particular question. (For a more detailed explanation of the headings, see the Introduction to this notebook.)

Question Text	Minimum Mean	Desired Mean	Perceived Mean	Adequacy Mean	Superiority Mean	n
Convenience of borrowing books from other colleges	6.05	7.89	7.10	1.05	-0.79	1,528
Availability of online help when using my library's electronic resources	6.01	7.52	6.61	0.60	-0.91	2,425
An environment that facilitates group study and problem solving	5.21	6.77	6.06	0.85	-0.72	181
Ease of use of electronic resources	6.39	8.10	7.10	0.70	-1.00	4,791
Providing help when and where I need it	6.36	7.83	7.05	0.69	-0.78	929
Providing information that answers my questions	6.57	7.98	7.29	0.72	-0.69	2,554
Teaching me how to access, evaluate, and use information	5.69	7.23	6.60	0.91	-0.64	992
Online course support (readings, links, references)	6.42	7.87	6.91	0.49	-0.95	2,420
Collections of online full-text articles sufficient to meet my needs	6.74	8.19	7.09	0.35	-1.10	2,555
Electronic resources matching my information needs	6.62	8.05	7.05	0.44	-1.00	2,718
Library staff teaching me how to find information	6.19	7.49	7.15	0.96	-0.33	1,338
Library keeping me informed about all of its services	5.30	6.78	6.18	0.88	-0.60	1,955
The multimedia (CD / DVD / video / audio) collections I need	5.65	7.03	6.42	0.78	-0.61	1,615
Access to photocopying and printing facilities	5.86	7.49	6.38	0.52	-1.12	831
Availability of subject specialist assistance	5.82	7.37	6.70	0.88	-0.67	5,250
Helpfulness in dealing with users' IT problems	6.62	7.75	6.96	0.35	-0.79	2,795
Library staff teaching me how to effectively use the electronically available databases, journals, and books	5.98	7.42	7.04	1.05	-0.38	3,033
Making me aware of library resources and services	6.12	7.54	6.89	0.78	-0.64	5,413
Teaching me how to locate, evaluate, and use information	5.74	7.43	6.73	1.00	-0.70	3,200
Efficient interlibrary loan / document delivery	6.21	7.64	7.08	0.86	-0.57	644
Access to rare and historical materials, particularly those of LDS origin.	4.93	6.71	7.26	2.33	0.55	1,251
Convenient service hours	6.77	8.10	7.40	0.63	-0.70	2,580
Ability to navigate library Web pages easily	6.91	8.27	7.01	0.10	-1.26	5,359
A center for intellectual stimulation	6.23	7.60	6.48	0.24	-1.12	379
Access to archives, special collections	5.98	7.35	6.83	0.85	-0.52	540
Browsing library materials in the stacks	5.89	7.32	6.86	0.97	-0.46	2,517
Convenient business hours	6.76	8.31	7.41	0.65	-0.90	1,550
Employees who appear to enjoy what they do	5.57	7.04	5.96	0.39	-1.08	161
Enabling me to find information myself 24 hours a day	7.08	8.33	7.59	0.51	-0.74	476

Language: American English

Institution Type: College or University

Consortium: ARL

User Group: All (Excluding Library Staff)

Full-text delivered electronically to individual computer	6.38	7.81	6.64	0.26	-1.17	159
Timely document delivery / interlibrary loan	6.76	8.04	7.28	0.52	-0.76	1,785
Personalization features in the electronic library	5.35	6.83	6.00	0.65	-0.83	357
Space for students to study and work in groups	6.08	7.57	7.10	1.02	-0.47	3,092
Adequate hours of service	6.82	8.13	7.55	0.73	-0.57	6,759
Librarians working with teams or individuals to fulfill specialized knowledge requirements	6.05	7.27	6.62	0.57	-0.66	313
Library staff providing help that assists in finding information needed now while improving my research skills	6.29	7.75	7.39	1.10	-0.36	776
Ease and timeliness in getting materials from other libraries	6.75	8.05	7.46	0.70	-0.59	1,932
An online catalog that is user-friendly for finding materials	6.83	8.22	7.02	0.18	-1.20	3,784

Language: American English  
 Institution Type: College or University  
 Consortium: ARL  
 User Group: All (Excluding Library Staff)

This table displays the standard deviation for each of the local questions added by the individual library or consortium, where n is the number of respondents for each particular question. (For a more detailed explanation of the headings, see the Introduction to this notebook.)

Question Text	Minimum SD	Desired SD	Perceived SD	Adequacy SD	Superiority SD	n
Convenience of borrowing books from other colleges	1.94	1.50	1.62	1.93	1.71	1,528
Availability of online help when using my library's electronic resources	1.91	1.61	1.68	1.98	1.86	2,425
An environment that facilitates group study and problem solving	2.14	2.19	1.86	2.17	2.36	181
Ease of use of electronic resources	1.68	1.23	1.42	1.81	1.57	4,791
Providing help when and where I need it	1.72	1.35	1.44	1.81	1.59	929
Providing information that answers my questions	1.70	1.24	1.32	1.69	1.37	2,554
Teaching me how to access, evaluate, and use information	1.88	1.77	1.66	1.97	1.89	992
Online course support (readings, links, references)	1.87	1.55	1.56	1.91	1.71	2,420
Collections of online full-text articles sufficient to meet my needs	1.82	1.23	1.55	2.13	1.75	2,555
Electronic resources matching my information needs	1.66	1.29	1.41	1.79	1.57	2,718
Library staff teaching me how to find information	2.00	1.72	1.64	1.90	1.69	1,338
Library keeping me informed about all of its services	2.10	1.93	1.78	2.15	2.05	1,955
The multimedia (CD / DVD / video / audio) collections I need	2.12	1.97	1.85	2.26	2.11	1,615
Access to photocopying and printing facilities	2.02	1.73	1.81	2.24	2.21	831
Availability of subject specialist assistance	1.97	1.69	1.72	1.96	1.80	5,250
Helpfulness in dealing with users' IT problems	1.85	1.52	1.73	1.94	1.80	2,795
Library staff teaching me how to effectively use the electronically available databases, journals, and books	2.00	1.73	1.71	2.04	1.87	3,033
Making me aware of library resources and services	1.94	1.57	1.68	2.05	1.87	5,413
Teaching me how to locate, evaluate, and use information	1.97	1.72	1.60	1.94	1.80	3,200
Efficient interlibrary loan / document delivery	2.04	1.66	1.77	2.10	1.68	644
Access to rare and historical materials, particularly those of LDS origin.	2.29	2.21	1.57	2.40	2.27	1,251
Convenient service hours	1.76	1.31	1.55	2.02	1.73	2,580
Ability to navigate library Web pages easily	1.68	1.14	1.66	2.03	1.81	5,359
A center for intellectual stimulation	1.95	1.67	1.86	1.95	1.95	379
Access to archives, special collections	2.13	1.76	1.69	2.39	2.20	540
Browsing library materials in the stacks	1.99	1.74	1.63	1.99	1.84	2,517
Convenient business hours	1.71	1.13	1.49	1.99	1.61	1,550
Employees who appear to enjoy what they do	2.06	1.89	2.04	2.36	2.24	161
Enabling me to find information myself 24 hours a day	1.67	1.08	1.39	1.77	1.47	476

Language: American English

Institution Type: College or University

Consortium: ARL

User Group: All (Excluding Library Staff)

Full-text delivered electronically to individual computer	1.93	1.50	1.86	2.11	1.93	159
Timely document delivery / interlibrary loan	1.74	1.32	1.55	1.86	1.61	1,785
Personalization features in the electronic library	2.19	2.09	1.95	1.89	1.94	357
Space for students to study and work in groups	2.00	1.69	1.60	2.12	1.89	3,092
Adequate hours of service	1.76	1.28	1.55	2.04	1.73	6,759
Librarians working with teams or individuals to fulfill specialized knowledge requirements	2.02	1.80	1.70	1.89	1.71	313
Library staff providing help that assists in finding information needed now while improving my research skills	1.78	1.46	1.42	1.69	1.36	776
Ease and timeliness in getting materials from other libraries	1.81	1.32	1.59	1.92	1.61	1,932
An online catalog that is user-friendly for finding materials	1.68	1.20	1.57	2.01	1.74	3,784

Language: American English  
Institution Type: College or University  
Consortium: ARL  
User Group: All (Excluding Library Staff)

#### 4.4 General Satisfaction Questions Summary

This table displays mean score and standard deviation for each of the general satisfaction questions: Satisfaction with Treatment, Satisfaction with Support, and Satisfaction with Overall Quality of Service, where n is the number of respondents for each particular question. These scores are calculated from responses to the general satisfaction questions on the LibQUAL+® survey, in which respondents rated their levels of general satisfaction on a scale from 1-9.

Satisfaction Question	Mean	SD	n
In general, I am satisfied with the way in which I am treated at the library.	7.53	1.48	20,254
In general, I am satisfied with library support for my learning, research, and/or teaching needs.	7.20	1.58	20,255
How would you rate the overall quality of the service provided by the library?	7.36	1.32	20,257

#### 4.5 Information Literacy Outcomes Questions Summary

This table displays the mean score and standard deviation for each of the information literacy outcomes questions, where n is the number of respondents for each particular question. These scores are calculated from responses to the information literacy outcomes questions on the LibQUAL+® survey, in which respondents rated their levels of general satisfaction on a scale from 1-9 with 1 being "strongly disagree" and 9 representing "strongly agree".

Information Literacy Outcomes Questions	Mean	SD	n
The library helps me stay abreast of developments in my field(s) of interest.	6.24	1.87	20,256
The library aids my advancement in my academic discipline or work.	7.04	1.64	20,254
The library enables me to be more efficient in my academic pursuits or work.	7.16	1.64	20,256
The library helps me distinguish between trustworthy and untrustworthy information.	6.11	1.97	20,251
The library provides me with the information skills I need in my work or study.	6.52	1.81	20,254

Language: American English

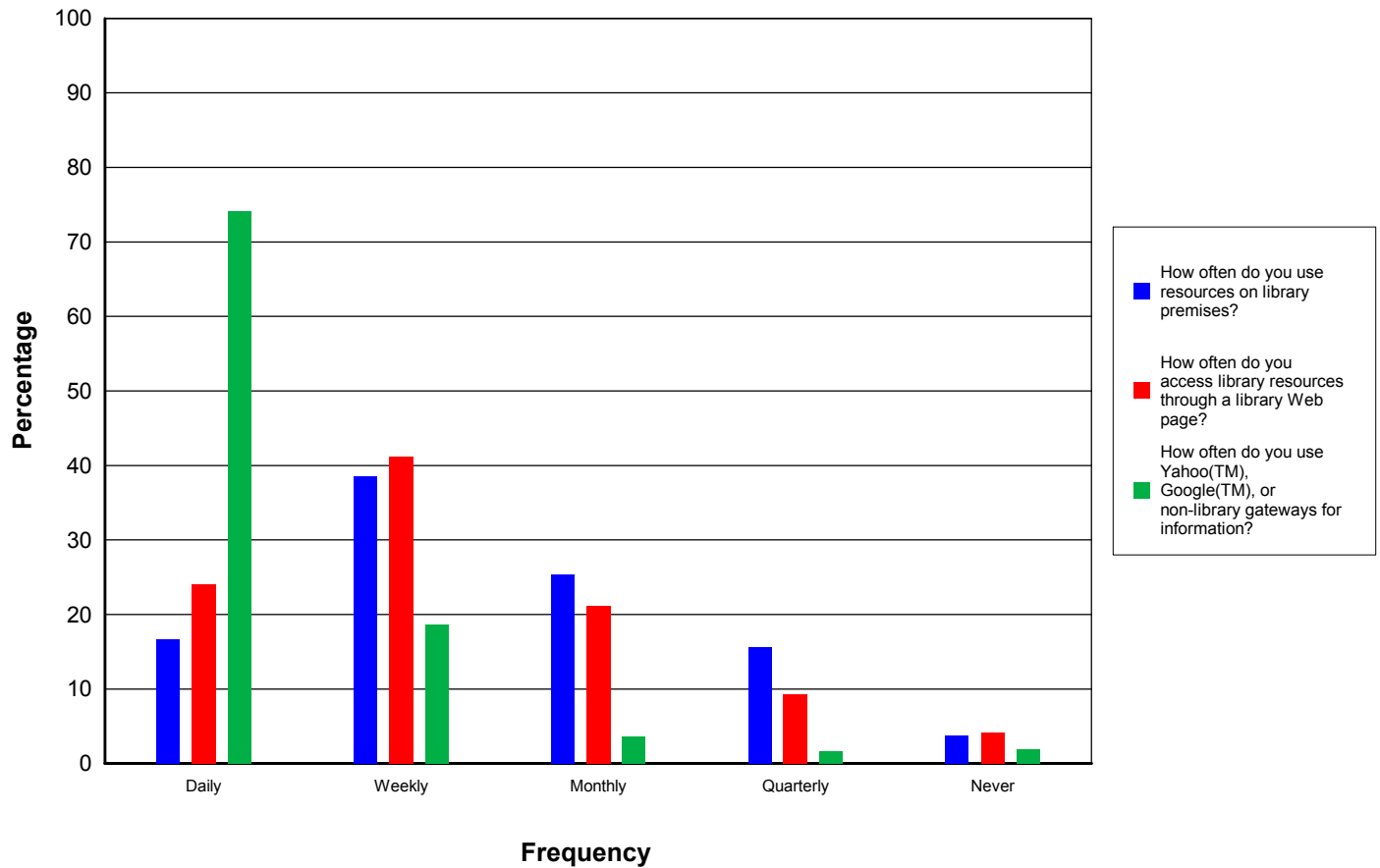
Institution Type: College or University

Consortium: ARL

User Group: All (Excluding Library Staff)

### 4.6 Library Use Summary

This chart shows a graphic representation of library use (both on the premises and electronically), as well as use of non-library information gateways such as Yahoo™ and Google™. Bars represent the frequency with which respondents report using these resources: Daily, Weekly, Monthly, Quarterly, or Never. The table below the chart displays the number and percentage of respondents who selected each option.



	Daily	Weekly	Monthly	Quarterly	Never	n / %
How often do you use resources on library premises?	3,373	7,820	5,136	3,156	772	<b>20,257</b>
	16.65%	38.60%	25.35%	15.58%	3.81%	<b>100.00%</b>
How often do you access library resources through a library Web page?	4,870	8,359	4,290	1,898	839	<b>20,256</b>
	24.04%	41.27%	21.18%	9.37%	4.14%	<b>100.00%</b>
How often do you use Yahoo(TM), Google(TM), or non-library gateways for information?	15,014	3,783	747	335	376	<b>20,255</b>
	74.12%	18.68%	3.69%	1.65%	1.86%	<b>100.00%</b>

Language: American English  
 Institution Type: College or University  
 Consortium: ARL  
 User Group: All (Excluding Library Staff)

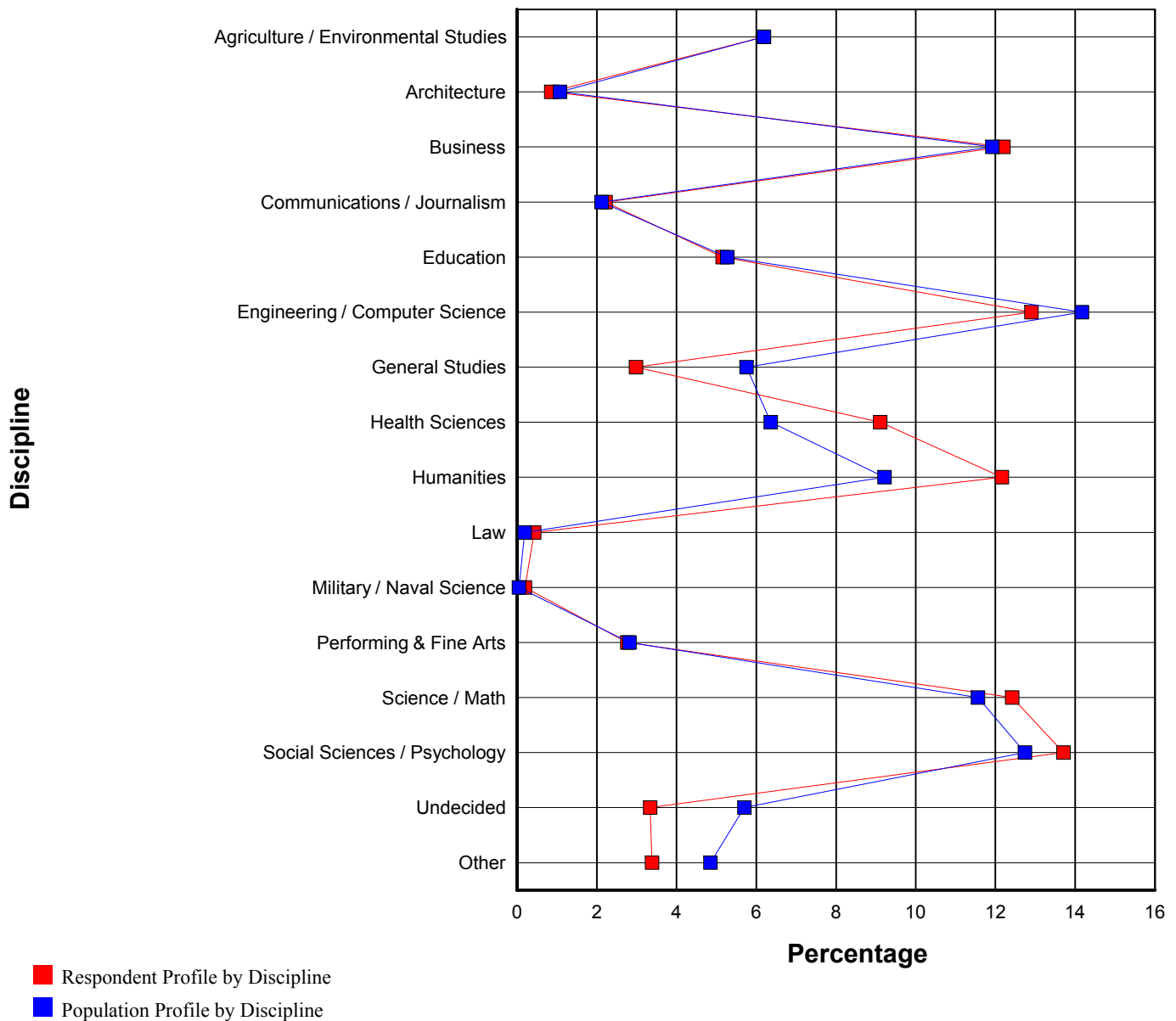
## 5 College or University Libraries Undergraduate Summary for ARL

### 5.1 Demographic Summary for Undergraduate

#### 5.1.1 Population and Respondent Profiles for Undergraduate by Discipline

The chart and table below show a breakdown of survey respondents by standard discipline, based on user responses to the demographic questions and the demographic data provided by institutions in the online Representativeness section.

The chart maps percentage of respondents for each discipline in red. Population percentages for each discipline are mapped in blue. The table shows the number and percentage for each discipline, for both the general population (N) and survey respondents (n).



Language: American English  
 Institution Type: College or University  
 Consortium: ARL  
 User Group: Undergraduate



<b>Discipline</b>	<b>Population N</b>	<b>Population %</b>	<b>Respondents n</b>	<b>Respondents %</b>	<b>%N - %n</b>
Agriculture / Environmental Studies	22,219	6.19%	636	6.18%	0.01%
Architecture	3,855	1.07%	88	0.86%	0.22%
Business	42,781	11.93%	1,255	12.20%	-0.28%
Communications / Journalism	7,594	2.12%	228	2.22%	-0.10%
Education	18,911	5.27%	530	5.15%	0.12%
Engineering / Computer Science	50,847	14.17%	1,327	12.90%	1.27%
General Studies	20,659	5.76%	307	2.98%	2.77%
Health Sciences	22,826	6.36%	937	9.11%	-2.75%
Humanities	33,072	9.22%	1,251	12.16%	-2.94%
Law	677	0.19%	44	0.43%	-0.24%
Military / Naval Science	167	0.05%	20	0.19%	-0.15%
Performing & Fine Arts	10,105	2.82%	284	2.76%	0.06%
Science / Math	41,467	11.56%	1,277	12.42%	-0.86%
Social Sciences / Psychology	45,707	12.74%	1,410	13.71%	-0.97%
Undecided	20,451	5.70%	343	3.33%	2.37%
Other	17,400	4.85%	348	3.38%	1.47%
<b>Total:</b>	<b>358,738</b>	<b>100.00%</b>	<b>10,285</b>	<b>100.00%</b>	<b>0.00%</b>

Language: American English  
Institution Type: College or University  
Consortium: ARL  
User Group: Undergraduate

### 5.1.2 Respondent Profile for Undergraduate by Age:

This table shows a breakdown of survey respondents by age; both the number of respondents (n) and the percentage of the total number of respondents represented by each age group are displayed.

Age:	Respondents n	Respondents %
Under 18	48	0.47%
18 - 22	8,525	82.88%
23 - 30	1,213	11.79%
31 - 45	343	3.33%
46 - 65	148	1.44%
Over 65	9	0.09%
<b>Total:</b>	<b>10,286</b>	<b>100.00%</b>

### 5.1.3 Population and Respondent Profiles for Undergraduate by Sex:

The table below shows a breakdown of survey respondents by sex, based on user responses to the demographic questions and the demographic data provided by institutions in the online Representativeness section\*. The number and percentage for each sex are given for the general population and for survey respondents.

\*Note: Participating institutions were not required to complete the Representativeness section. When population data is missing or incomplete, it is because this data was not provided.

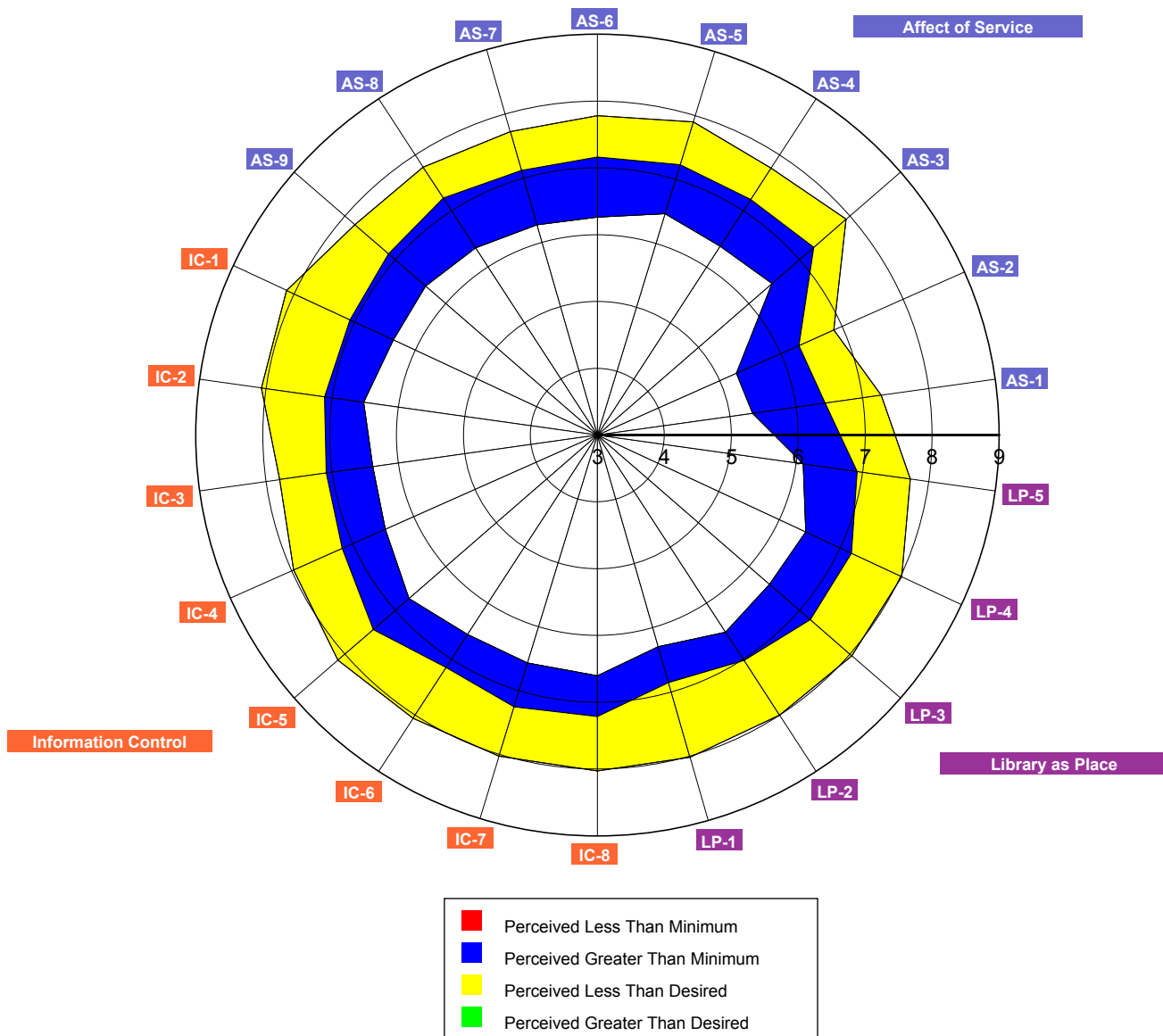
Sex:	Population N	Population %	Respondents n	Respondents %
Male	321,440	51.94%	4,205	40.88%
Female	297,422	48.06%	6,081	59.12%
<b>Total:</b>	<b>618,862</b>	<b>100.00%</b>	<b>10,286</b>	<b>100.00%</b>

## 5.2 Core Questions Summary for Undergraduate

This radar chart shows aggregate results for the core survey questions. Each axis represents one question. A code to identify each question is displayed at the outer point of each axis. While questions for each dimension of library service quality are scattered randomly throughout the survey, on this chart they are grouped into sections: Affect of Service, Library as Place, and Information Control.

On each axis, respondents' minimum, desired, and perceived levels of service quality are plotted, and the resulting "gaps" between the three levels (representing service adequacy and service superiority) are shaded in blue, yellow, green, and red.

The two following tables show mean scores and standard deviations for each question, where n is the number of respondents for each particular question. (For a more detailed explanation of the headings, see the Introduction to this notebook.)



Language: American English  
 Institution Type: College or University  
 Consortium: ARL  
 User Group: Undergraduate

ID	Question Text	Minimum Mean	Desired Mean	Perceived Mean	Adequacy Mean	Superiority Mean	n
<b>Affect of Service</b>							
AS-1	Employees who instill confidence in users	5.34	7.28	6.44	1.09	-0.84	9,714
AS-2	Giving users individual attention	5.27	6.87	6.30	1.02	-0.57	9,787
AS-3	Employees who are consistently courteous	6.46	7.92	7.28	0.82	-0.64	10,077
AS-4	Readiness to respond to users' questions	6.37	7.76	7.21	0.84	-0.56	9,676
AS-5	Employees who have the knowledge to answer user questions	6.47	7.90	7.23	0.77	-0.67	9,693
AS-6	Employees who deal with users in a caring fashion	6.26	7.78	7.16	0.90	-0.61	9,755
AS-7	Employees who understand the needs of their users	6.28	7.72	7.12	0.84	-0.60	9,640
AS-8	Willingness to help users	6.34	7.78	7.23	0.89	-0.55	9,748
AS-9	Dependability in handling users' service problems	6.40	7.80	7.13	0.74	-0.67	8,798
<b>Information Control</b>							
IC-1	Making electronic resources accessible from my home or office	6.37	8.12	7.08	0.72	-1.04	10,003
IC-2	A library Web site enabling me to locate information on my own	6.53	8.07	7.12	0.59	-0.95	10,138
IC-3	The printed library materials I need for my work	6.39	7.79	7.09	0.70	-0.70	9,430
IC-4	The electronic information resources I need	6.47	7.97	7.17	0.71	-0.79	9,962
IC-5	Modern equipment that lets me easily access needed information	6.73	8.14	7.44	0.71	-0.70	10,095
IC-6	Easy-to-use access tools that allow me to find things on my own	6.56	8.06	7.15	0.59	-0.91	10,038
IC-7	Making information easily accessible for independent use	6.57	8.03	7.25	0.69	-0.77	9,983
IC-8	Print and/or electronic journal collections I require for my work	6.60	8.03	7.21	0.61	-0.81	9,417
<b>Library as Place</b>							
LP-1	Library space that inspires study and learning	6.29	8.02	6.86	0.56	-1.16	10,184
LP-2	Quiet space for individual activities	6.52	8.00	7.02	0.50	-0.98	10,128
LP-3	A comfortable and inviting location	6.41	8.04	7.21	0.81	-0.82	10,183
LP-4	A getaway for study, learning, or research	6.43	8.02	7.19	0.75	-0.83	10,028
LP-5	Community space for group learning and group study	6.11	7.72	6.92	0.81	-0.80	9,796
<b>Overall:</b>		6.33	7.86	7.08	0.75	-0.78	10,286

Language: American English

Institution Type: College or University

Consortium: ARL

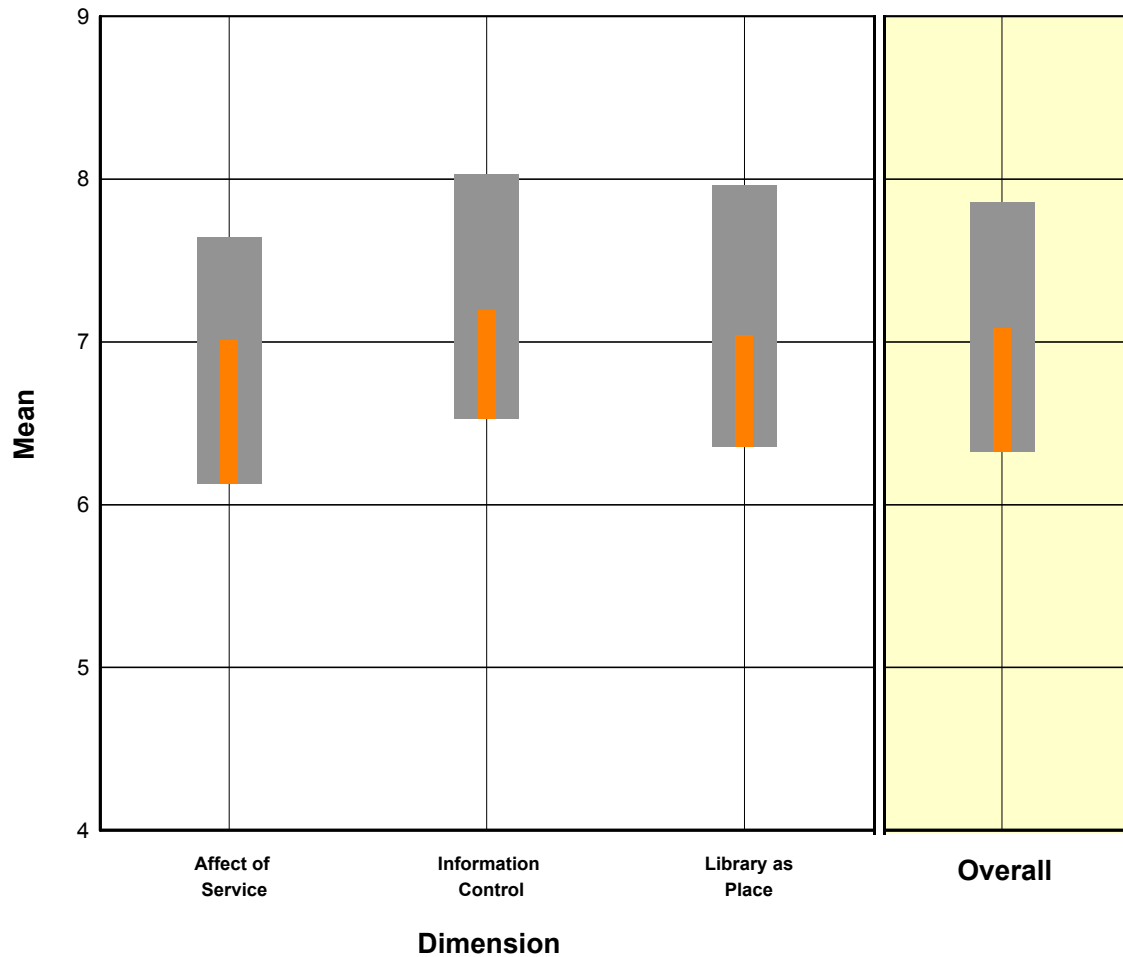
User Group: Undergraduate

ID	Question Text	Minimum SD	Desired SD	Perceived SD	Adequacy SD	Superiority SD	n
<b>Affect of Service</b>							
AS-1	Employees who instill confidence in users	1.84	1.60	1.64	1.85	1.72	9,714
AS-2	Giving users individual attention	2.03	1.83	1.81	1.88	1.77	9,787
AS-3	Employees who are consistently courteous	1.88	1.38	1.59	1.97	1.65	10,077
AS-4	Readiness to respond to users' questions	1.76	1.41	1.49	1.78	1.52	9,676
AS-5	Employees who have the knowledge to answer user questions	1.78	1.35	1.48	1.80	1.54	9,693
AS-6	Employees who deal with users in a caring fashion	1.88	1.43	1.52	1.86	1.58	9,755
AS-7	Employees who understand the needs of their users	1.82	1.42	1.50	1.80	1.54	9,640
AS-8	Willingness to help users	1.84	1.43	1.51	1.81	1.53	9,748
AS-9	Dependability in handling users' service problems	1.78	1.40	1.48	1.77	1.53	8,798
<b>Information Control</b>							
IC-1	Making electronic resources accessible from my home or office	1.82	1.32	1.65	2.02	1.77	10,003
IC-2	A library Web site enabling me to locate information on my own	1.78	1.31	1.59	1.95	1.71	10,138
IC-3	The printed library materials I need for my work	1.84	1.47	1.51	1.89	1.60	9,430
IC-4	The electronic information resources I need	1.73	1.33	1.44	1.82	1.54	9,962
IC-5	Modern equipment that lets me easily access needed information	1.73	1.23	1.40	1.79	1.46	10,095
IC-6	Easy-to-use access tools that allow me to find things on my own	1.74	1.26	1.48	1.87	1.59	10,038
IC-7	Making information easily accessible for independent use	1.72	1.25	1.42	1.82	1.50	9,983
IC-8	Print and/or electronic journal collections I require for my work	1.81	1.34	1.53	1.96	1.64	9,417
<b>Library as Place</b>							
LP-1	Library space that inspires study and learning	1.84	1.39	1.74	2.18	1.99	10,184
LP-2	Quiet space for individual activities	1.88	1.41	1.73	2.27	1.98	10,128
LP-3	A comfortable and inviting location	1.84	1.31	1.61	2.06	1.75	10,183
LP-4	A getaway for study, learning, or research	1.88	1.36	1.56	2.04	1.73	10,028
LP-5	Community space for group learning and group study	1.96	1.56	1.72	2.29	2.04	9,796
<b>Overall:</b>		1.41	0.98	1.11	1.41	1.12	10,286

Language: American English  
Institution Type: College or University  
Consortium: ARL  
User Group: Undergraduate

### 5.3 Core Question Dimensions Summary for Undergraduate

On the chart below, scores for each dimension of library service quality have been plotted graphically. The exterior bars represent the range of minimum to desired mean scores for each dimension. The interior bars represent the range of minimum to perceived mean scores (the service adequacy gap) for each dimension of library service quality.



Range of Minimum to Desired  
 Range of Minimum to Perceived ("Adequacy Gap")

Language: American English  
 Institution Type: College or University  
 Consortium: ARL  
 User Group: Undergraduate

The following table displays mean scores for each dimension of library service quality measured by the LibQUAL+® survey, where n is the number of respondents for each particular dimension. (For a more detailed explanation of the headings, see the Introduction to this notebook.) A complete listing of the survey questions and their dimensions can be found in Appendix A.

Dimension	Minimum Mean	Desired Mean	Perceived Mean	Adequacy Mean	Superiority Mean	n
Affect of Service	6.13	7.65	7.01	0.88	-0.64	10,261
Information Control	6.53	8.03	7.19	0.66	-0.84	10,286
Library as Place	6.35	7.96	7.04	0.69	-0.92	10,272
<b>Overall:</b>	6.33	7.86	7.08	0.75	-0.78	10,286

The following table displays standard deviation for each dimension of library service quality measured by the LibQUAL+® survey, where n is the number of respondents for each particular dimension. (For a more detailed explanation of the headings, see the Introduction to this notebook.) A complete listing of the survey questions and their dimensions can be found in Appendix A.

Dimension	Minimum SD	Desired SD	Perceived SD	Adequacy SD	Superiority SD	n
Affect of Service	1.90	1.52	1.60	1.84	1.60	10,261
Information Control	1.78	1.32	1.51	1.89	1.61	10,286
Library as Place	1.89	1.41	1.68	2.17	1.91	10,272
<b>Overall:</b>	1.41	0.98	1.11	1.41	1.12	10,286

Language: American English  
 Institution Type: College or University  
 Consortium: ARL  
 User Group: Undergraduate

## 5.4 Local Questions Summary for Undergraduate

This table shows mean scores for each of the local questions added by the individual library or consortium, where n is the number of respondents for each particular question. (For a more detailed explanation of the headings, see the Introduction to this notebook.)

Question Text	Minimum Mean	Desired Mean	Perceived Mean	Adequacy Mean	Superiority Mean	n
Convenience of borrowing books from other colleges	5.73	7.73	6.93	1.20	-0.81	881
Availability of online help when using my library's electronic resources	5.62	7.40	6.55	0.93	-0.85	792
An environment that facilitates group study and problem solving	5.50	7.65	6.08	0.58	-1.58	40
Ease of use of electronic resources	6.11	8.00	7.06	0.95	-0.94	2,469
Providing help when and where I need it	6.11	7.79	6.99	0.88	-0.79	379
Providing information that answers my questions	6.34	7.93	7.24	0.90	-0.69	1,423
Teaching me how to access, evaluate, and use information	5.47	7.13	6.56	1.09	-0.57	419
Online course support (readings, links, references)	6.29	7.93	6.90	0.62	-1.03	1,087
Collections of online full-text articles sufficient to meet my needs	6.39	8.03	7.08	0.69	-0.95	1,410
Electronic resources matching my information needs	6.38	7.84	6.99	0.61	-0.85	1,805
Library staff teaching me how to find information	6.29	7.53	7.02	0.73	-0.51	674
Library keeping me informed about all of its services	4.90	6.54	5.96	1.06	-0.58	807
The multimedia (CD / DVD / video / audio) collections I need	5.67	7.01	6.56	0.88	-0.45	1,011
Access to photocopying and printing facilities	5.78	7.51	6.57	0.80	-0.93	430
Availability of subject specialist assistance	5.53	7.27	6.55	1.02	-0.72	2,348
Helpfulness in dealing with users' IT problems	6.52	7.68	6.88	0.36	-0.80	1,672
Library staff teaching me how to effectively use the electronically available databases, journals, and books	5.83	7.32	6.90	1.07	-0.43	1,991
Making me aware of library resources and services	6.07	7.52	6.83	0.76	-0.70	2,963
Teaching me how to locate, evaluate, and use information	5.63	7.44	6.62	1.00	-0.81	1,848
Efficient interlibrary loan / document delivery	5.64	7.09	6.64	1.00	-0.45	308
Access to rare and historical materials, particularly those of LDS origin.	4.98	6.96	7.31	2.32	0.34	726
Convenient service hours	6.59	8.14	7.48	0.89	-0.66	833
Ability to navigate library Web pages easily	6.72	8.14	7.07	0.36	-1.06	2,659
A center for intellectual stimulation	6.33	7.81	6.71	0.38	-1.10	113
Access to archives, special collections	5.55	7.05	6.59	1.05	-0.45	44
Browsing library materials in the stacks	5.77	7.23	6.84	1.07	-0.39	1,694
Convenient business hours	6.76	8.35	7.48	0.72	-0.87	923
Employees who appear to enjoy what they do	5.51	7.00	5.85	0.35	-1.15	144

Language: American English

Institution Type: College or University

Consortium: ARL

User Group: Undergraduate



Enabling me to find information myself 24 hours a day	6.73	8.24	7.51	0.78	-0.73	132
Full-text delivered electronically to individual computer	6.31	7.78	6.58	0.27	-1.20	141
Timely document delivery / interlibrary loan	6.48	7.82	7.07	0.58	-0.76	779
Personalization features in the electronic library	5.12	6.79	6.04	0.92	-0.76	111
Space for students to study and work in groups	6.15	7.79	7.17	1.02	-0.62	1,744
Adequate hours of service	6.74	8.11	7.63	0.89	-0.49	4,081
Librarians working with teams or individuals to fulfill specialized knowledge requirements	5.97	7.20	6.38	0.42	-0.82	89
Library staff providing help that assists in finding information needed now while improving my research skills	6.18	7.73	7.29	1.11	-0.44	383
Ease and timeliness in getting materials from other libraries	6.62	7.88	7.32	0.71	-0.55	1,107
An online catalog that is user-friendly for finding materials	6.60	8.04	7.02	0.42	-1.01	2,250

Language: American English  
 Institution Type: College or University  
 Consortium: ARL  
 User Group: Undergraduate

This table displays the standard deviation for each of the local questions added by the individual library or consortium, where n is the number of respondents for each particular question. (For a more detailed explanation of the headings, see the Introduction to this notebook.)

Question Text	Minimum SD	Desired SD	Perceived SD	Adequacy SD	Superiority SD	n
Convenience of borrowing books from other colleges	1.91	1.55	1.63	1.86	1.68	881
Availability of online help when using my library's electronic resources	1.91	1.61	1.69	1.90	1.84	792
An environment that facilitates group study and problem solving	1.93	1.21	1.62	2.04	1.91	40
Ease of use of electronic resources	1.71	1.28	1.41	1.78	1.55	2,469
Providing help when and where I need it	1.75	1.40	1.37	1.82	1.58	379
Providing information that answers my questions	1.77	1.30	1.33	1.75	1.41	1,423
Teaching me how to access, evaluate, and use information	1.90	1.81	1.67	2.02	1.98	419
Online course support (readings, links, references)	1.70	1.41	1.45	1.83	1.62	1,087
Collections of online full-text articles sufficient to meet my needs	1.90	1.33	1.53	2.10	1.74	1,410
Electronic resources matching my information needs	1.71	1.39	1.44	1.80	1.58	1,805
Library staff teaching me how to find information	1.96	1.60	1.72	1.86	1.63	674
Library keeping me informed about all of its services	2.11	2.01	1.78	2.22	2.19	807
The multimedia (CD / DVD / video / audio) collections I need	2.13	1.96	1.86	2.22	2.06	1,011
Access to photocopying and printing facilities	2.00	1.66	1.80	2.04	2.06	430
Availability of subject specialist assistance	1.92	1.67	1.71	1.95	1.83	2,348
Helpfulness in dealing with users' IT problems	1.90	1.55	1.80	2.01	1.87	1,672
Library staff teaching me how to effectively use the electronically available databases, journals, and books	2.04	1.76	1.74	2.08	1.91	1,991
Making me aware of library resources and services	1.98	1.58	1.74	2.08	1.91	2,963
Teaching me how to locate, evaluate, and use information	1.94	1.68	1.62	1.96	1.81	1,848
Efficient interlibrary loan / document delivery	1.99	1.84	1.81	2.02	1.70	308
Access to rare and historical materials, particularly those of LDS origin.	2.21	2.00	1.55	2.28	2.08	726
Convenient service hours	1.83	1.21	1.55	2.05	1.65	833
Ability to navigate library Web pages easily	1.76	1.23	1.66	1.99	1.77	2,659
A center for intellectual stimulation	2.02	1.54	1.66	1.97	1.63	113
Access to archives, special collections	2.42	2.18	1.91	2.74	2.46	44
Browsing library materials in the stacks	2.01	1.75	1.63	1.99	1.80	1,694
Convenient business hours	1.67	1.08	1.43	1.98	1.52	923
Employees who appear to enjoy what they do	2.03	1.88	2.03	2.44	2.26	144
Enabling me to find information myself 24 hours a day	1.69	1.01	1.40	1.73	1.28	132

Language: American English

Institution Type: College or University

Consortium: ARL

User Group: Undergraduate

Full-text delivered electronically to individual computer	1.94	1.52	1.88	2.17	2.02	141
Timely document delivery / interlibrary loan	1.85	1.41	1.64	1.96	1.72	779
Personalization features in the electronic library	2.23	2.04	1.93	1.83	1.92	111
Space for students to study and work in groups	1.88	1.44	1.60	2.15	1.82	1,744
Adequate hours of service	1.83	1.29	1.53	2.05	1.67	4,081
Librarians working with teams or individuals to fulfill specialized knowledge requirements	1.94	1.73	1.61	1.95	1.76	89
Library staff providing help that assists in finding information needed now while improving my research skills	1.82	1.42	1.44	1.70	1.43	383
Ease and timeliness in getting materials from other libraries	1.91	1.46	1.67	1.98	1.67	1,107
An online catalog that is user-friendly for finding materials	1.74	1.33	1.55	2.00	1.72	2,250

Language: American English  
 Institution Type: College or University  
 Consortium: ARL  
 User Group: Undergraduate

## 5.5 General Satisfaction Questions Summary for Undergraduate

This table displays mean score and standard deviation for each of the general satisfaction questions: Satisfaction with Treatment, Satisfaction with Support, and Satisfaction with Overall Quality of Service, where n is the number of respondents for each particular question. These scores are calculated from responses to the general satisfaction questions on the LibQUAL+® survey, in which respondents rated their levels of general satisfaction on a scale from 1-9.

Satisfaction Question	Mean	SD	n
In general, I am satisfied with the way in which I am treated at the library.	7.49	1.48	10,286
In general, I am satisfied with library support for my learning, research, and/or teaching needs.	7.21	1.52	10,286
How would you rate the overall quality of the service provided by the library?	7.35	1.28	10,286

## 5.6 Information Literacy Outcomes Questions Summary for Undergraduate

This table displays the mean score and standard deviation for each of the information literacy outcomes questions, where n is the number of respondents for each particular question. These scores are calculated from responses to the information literacy outcomes questions on the LibQUAL+® survey, in which respondents rated their levels of general satisfaction on a scale from 1-9 with 1 being "strongly disagree" and 9 representing "strongly agree".

Information Literacy Outcomes Questions	Mean	SD	n
The library helps me stay abreast of developments in my field(s) of interest.	6.06	1.77	10,286
The library aids my advancement in my academic discipline or work.	6.89	1.61	10,286
The library enables me to be more efficient in my academic pursuits or work.	7.08	1.61	10,286
The library helps me distinguish between trustworthy and untrustworthy information.	6.34	1.88	10,286
The library provides me with the information skills I need in my work or study.	6.60	1.73	10,286

Language: American English

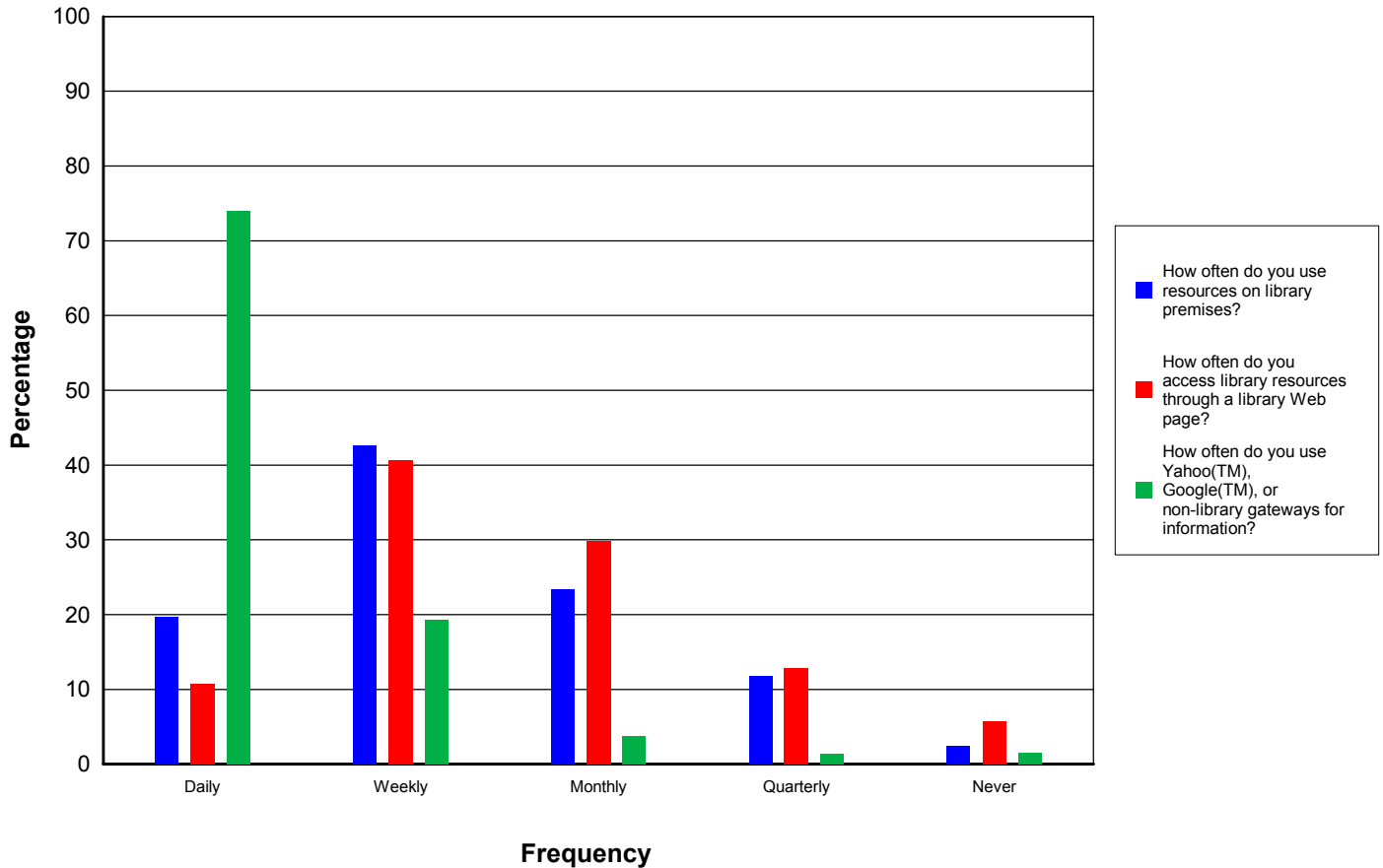
Institution Type: College or University

Consortium: ARL

User Group: Undergraduate

### 5.7 Library Use Summary for Undergraduate

This chart shows a graphic representation of library use (both on the premises and electronically), as well as use of non-library information gateways such as Yahoo™ and Google™. Bars represent the frequency with which respondents report using these resources: Daily, Weekly, Monthly, Quarterly, or Never. The table below the chart displays the number and percentage of respondents who selected each option.



	Daily	Weekly	Monthly	Quarterly	Never	n / %
How often do you use resources on library premises?	2,022 19.66%	4,391 42.69%	2,409 23.42%	1,213 11.79%	251 2.44%	<b>10,286</b> <b>100.00%</b>
How often do you access library resources through a library Web page?	1,111 10.80%	4,187 40.71%	3,066 29.81%	1,328 12.91%	594 5.77%	<b>10,286</b> <b>100.00%</b>
How often do you use Yahoo(TM), Google(TM), or non-library gateways for information?	7,604 73.93%	1,984 19.29%	392 3.81%	145 1.41%	161 1.57%	<b>10,286</b> <b>100.00%</b>

Language: American English  
 Institution Type: College or University  
 Consortium: ARL  
 User Group: Undergraduate

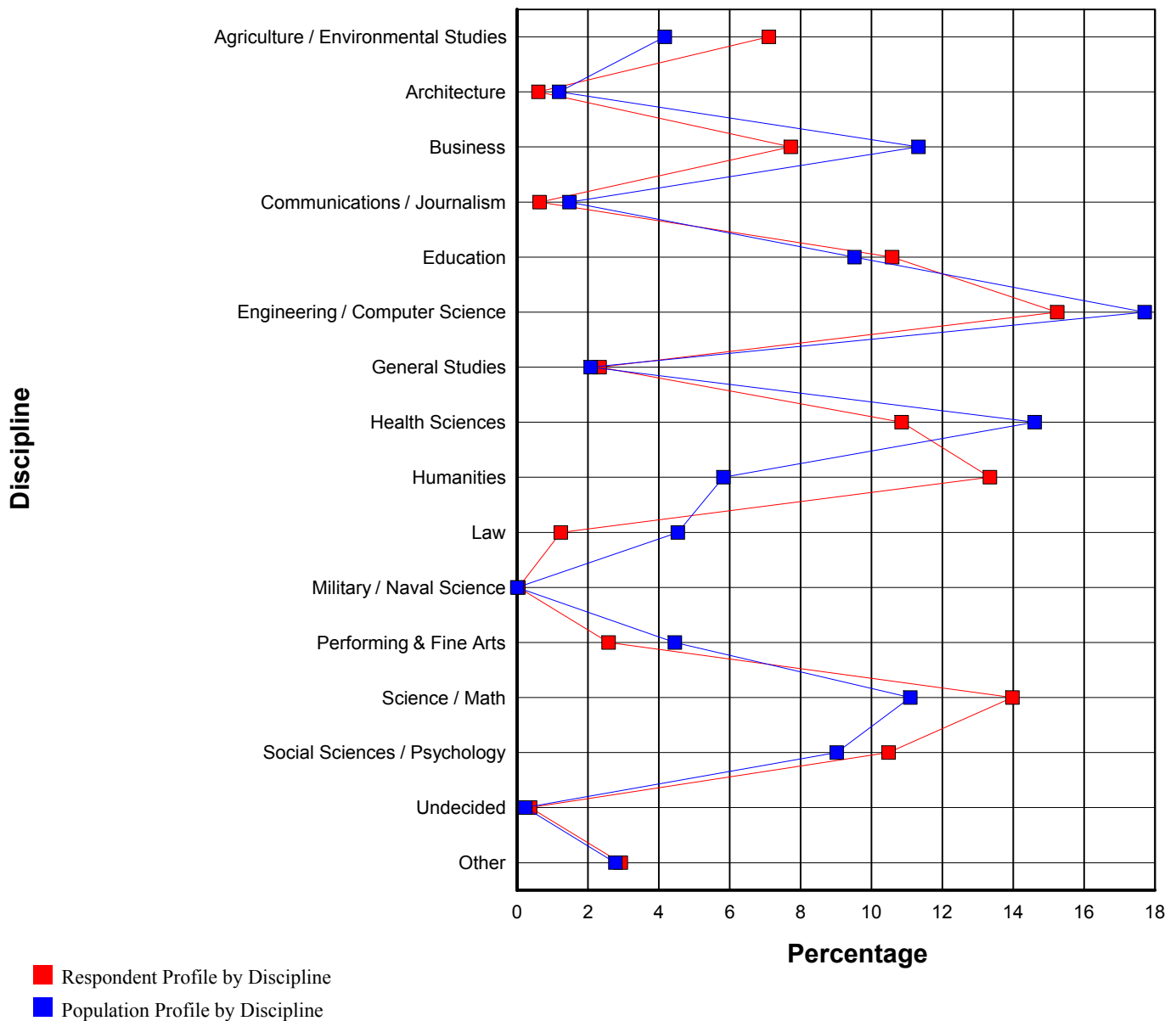
## 6 College or University Libraries Graduate Summary for ARL

### 6.1 Demographic Summary for Graduate

#### 6.1.1 Population and Respondent Profiles for Graduate by Discipline

The chart and table below show a breakdown of survey respondents by standard discipline, based on user responses to the demographic questions and the demographic data provided by institutions in the online Representativeness section.

The chart maps percentage of respondents for each discipline in red. Population percentages for each discipline are mapped in blue. The table shows the number and percentage for each discipline, for both the general population (N) and survey respondents (n).



Language: American English  
 Institution Type: College or University  
 Consortium: ARL  
 User Group: Graduate

<b>Discipline</b>	<b>Population N</b>	<b>Population %</b>	<b>Respondents n</b>	<b>Respondents %</b>	<b>%N - %n</b>
Agriculture / Environmental Studies	4,561	4.17%	427	7.10%	-2.94%
Architecture	1,300	1.19%	36	0.60%	0.59%
Business	12,408	11.33%	464	7.72%	3.61%
Communications / Journalism	1,618	1.48%	38	0.63%	0.85%
Education	10,427	9.52%	636	10.58%	-1.06%
Engineering / Computer Science	19,393	17.71%	916	15.24%	2.47%
General Studies	2,269	2.07%	140	2.33%	-0.26%
Health Sciences	16,000	14.61%	652	10.85%	3.76%
Humanities	6,372	5.82%	802	13.34%	-7.53%
Law	4,969	4.54%	74	1.23%	3.31%
Military / Naval Science	0	0.00%	2	0.03%	-0.03%
Performing & Fine Arts	4,877	4.45%	155	2.58%	1.87%
Science / Math	12,154	11.10%	840	13.98%	-2.88%
Social Sciences / Psychology	9,877	9.02%	630	10.48%	-1.46%
Undecided	251	0.23%	22	0.37%	-0.14%
Other	3,031	2.77%	176	2.93%	-0.16%
<b>Total:</b>	<b>109,507</b>	<b>100.00%</b>	<b>6,010</b>	<b>100.00%</b>	<b>0.00%</b>

Language: American English  
Institution Type: College or University  
Consortium: ARL  
User Group: Graduate

### 6.1.2 Respondent Profile for Graduate by Age:

This table shows a breakdown of survey respondents by age; both the number of respondents (n) and the percentage of the total number of respondents represented by each age group are displayed.

Age:	Respondents n	Respondents %
18 - 22	357	5.94%
23 - 30	3,812	63.42%
31 - 45	1,423	23.67%
46 - 65	408	6.79%
Over 65	11	0.18%
<b>Total:</b>	<b>6,011</b>	<b>100.00%</b>

### 6.1.3 Population and Respondent Profiles for Graduate by Sex:

The table below shows a breakdown of survey respondents by sex, based on user responses to the demographic questions and the demographic data provided by institutions in the online Representativeness section\*. The number and percentage for each sex are given for the general population and for survey respondents.

\*Note: Participating institutions were not required to complete the Representativeness section. When population data is missing or incomplete, it is because this data was not provided.

Sex:	Population N	Population %	Respondents n	Respondents %
Male	321,440	51.94%	2,797	46.55%
Female	297,422	48.06%	3,212	53.45%
<b>Total:</b>	<b>618,862</b>	<b>100.00%</b>	<b>6,009</b>	<b>100.00%</b>

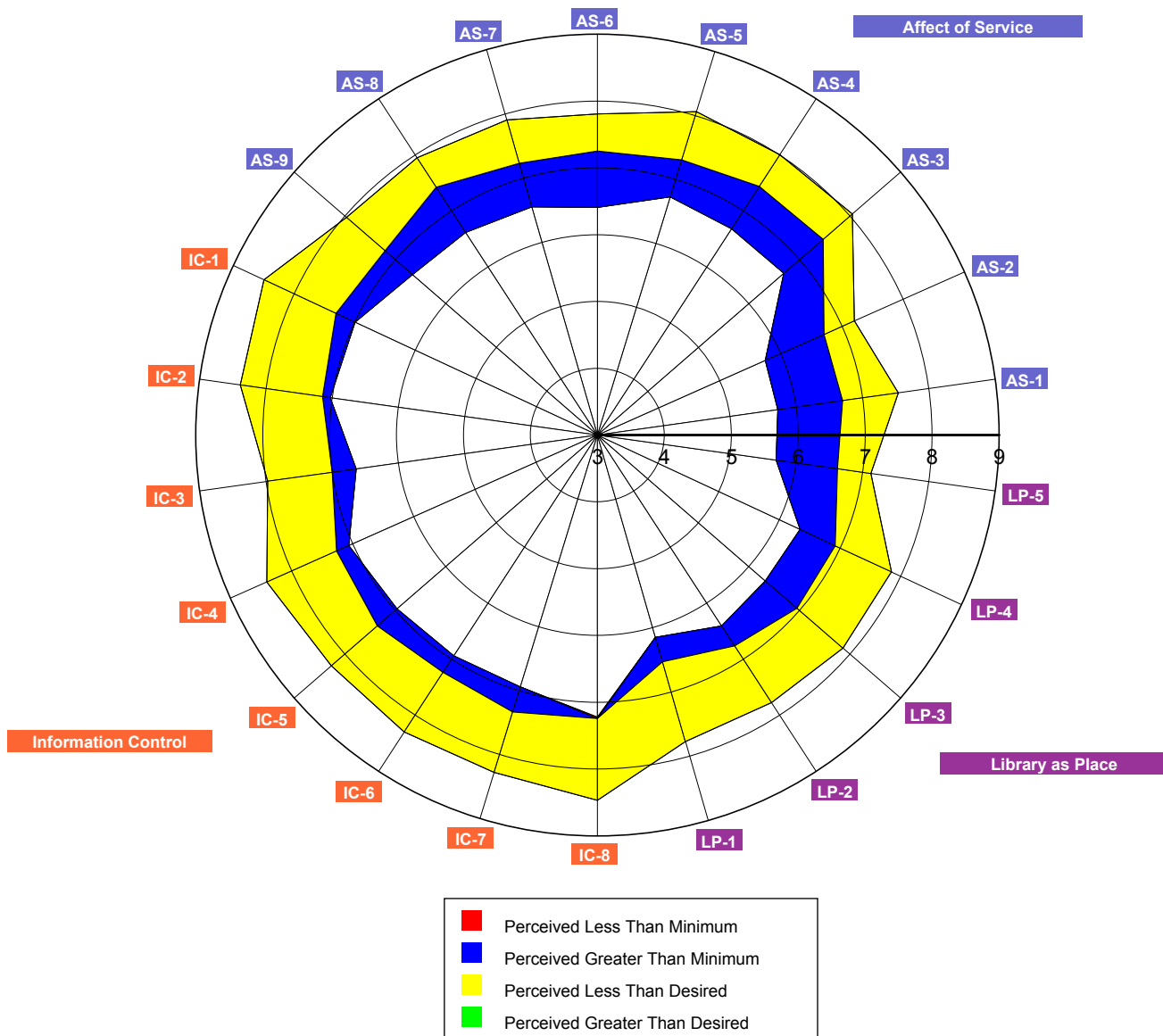


## 6.2 Core Questions Summary for Graduate

This radar chart shows aggregate results for the core survey questions. Each axis represents one question. A code to identify each question is displayed at the outer point of each axis. While questions for each dimension of library service quality are scattered randomly throughout the survey, on this chart they are grouped into sections: Affect of Service, Library as Place, and Information Control.

On each axis, respondents' minimum, desired, and perceived levels of service quality are plotted, and the resulting "gaps" between the three levels (representing service adequacy and service superiority) are shaded in blue, yellow, green, and red.

The two following tables show mean scores and standard deviations for each question, where n is the number of respondents for each particular question. (For a more detailed explanation of the headings, see the Introduction to this notebook.)



Language: American English  
 Institution Type: College or University  
 Consortium: ARL  
 User Group: Graduate

ID	Question Text	Minimum Mean	Desired Mean	Perceived Mean	Adequacy Mean	Superiority Mean	n
<b>Affect of Service</b>							
AS-1	Employees who instill confidence in users	5.72	7.54	6.70	0.97	-0.84	5,621
AS-2	Giving users individual attention	5.75	7.20	6.71	0.96	-0.50	5,661
AS-3	Employees who are consistently courteous	6.69	8.05	7.47	0.78	-0.58	5,846
AS-4	Readiness to respond to users' questions	6.68	8.00	7.44	0.76	-0.56	5,700
AS-5	Employees who have the knowledge to answer user questions	6.73	8.06	7.31	0.58	-0.75	5,640
AS-6	Employees who deal with users in a caring fashion	6.41	7.81	7.25	0.84	-0.56	5,669
AS-7	Employees who understand the needs of their users	6.55	7.91	7.23	0.68	-0.68	5,580
AS-8	Willingness to help users	6.61	7.95	7.43	0.81	-0.52	5,674
AS-9	Dependability in handling users' service problems	6.66	7.97	7.20	0.54	-0.76	5,016
<b>Information Control</b>							
IC-1	Making electronic resources accessible from my home or office	6.99	8.50	7.31	0.32	-1.18	5,934
IC-2	A library Web site enabling me to locate information on my own	7.03	8.39	7.15	0.12	-1.24	5,972
IC-3	The printed library materials I need for my work	6.64	7.98	7.00	0.36	-0.98	5,504
IC-4	The electronic information resources I need	7.07	8.41	7.27	0.20	-1.14	5,935
IC-5	Modern equipment that lets me easily access needed information	6.97	8.26	7.36	0.39	-0.91	5,817
IC-6	Easy-to-use access tools that allow me to find things on my own	6.94	8.30	7.24	0.29	-1.06	5,882
IC-7	Making information easily accessible for independent use	6.94	8.28	7.34	0.39	-0.94	5,808
IC-8	Print and/or electronic journal collections I require for my work	7.24	8.47	7.22	-0.02	-1.25	5,802
<b>Library as Place</b>							
LP-1	Library space that inspires study and learning	6.15	7.77	6.53	0.38	-1.24	5,765
LP-2	Quiet space for individual activities	6.41	7.78	6.77	0.36	-1.01	5,608
LP-3	A comfortable and inviting location	6.33	7.86	6.95	0.63	-0.91	5,785
LP-4	A getaway for study, learning, or research	6.34	7.85	6.92	0.58	-0.93	5,626
LP-5	Community space for group learning and group study	5.70	7.13	6.62	0.93	-0.50	5,030
<b>Overall:</b>		6.58	7.99	7.11	0.53	-0.88	6,014

Language: American English

Institution Type: College or University

Consortium: ARL

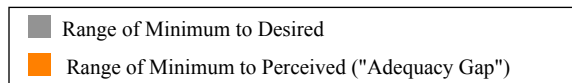
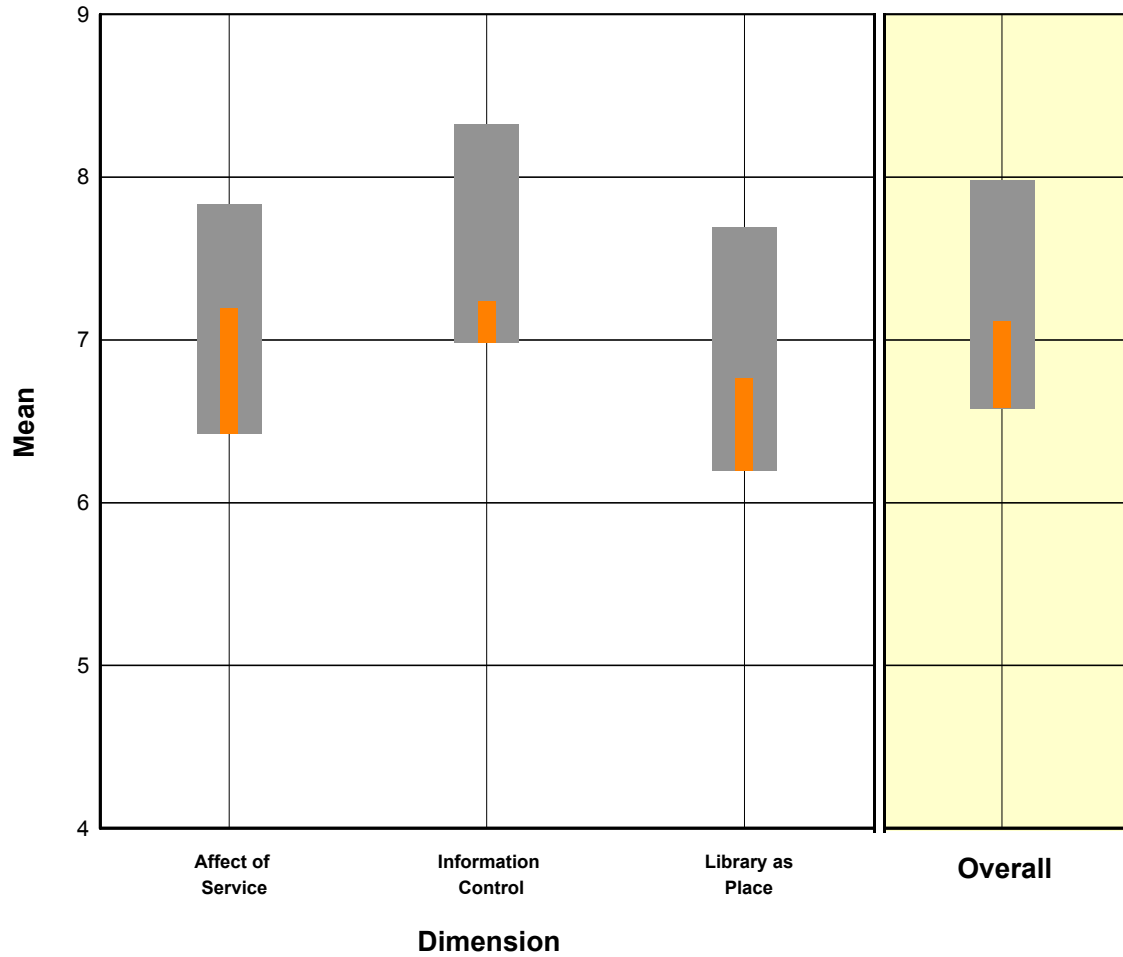
User Group: Graduate

ID	Question Text	Minimum SD	Desired SD	Perceived SD	Adequacy SD	Superiority SD	n
<b>Affect of Service</b>							
AS-1	Employees who instill confidence in users	1.81	1.52	1.63	1.86	1.72	5,621
AS-2	Giving users individual attention	1.95	1.71	1.71	1.86	1.69	5,661
AS-3	Employees who are consistently courteous	1.79	1.27	1.52	1.93	1.64	5,846
AS-4	Readiness to respond to users' questions	1.64	1.23	1.42	1.75	1.47	5,700
AS-5	Employees who have the knowledge to answer user questions	1.66	1.25	1.47	1.77	1.55	5,640
AS-6	Employees who deal with users in a caring fashion	1.82	1.41	1.52	1.85	1.60	5,669
AS-7	Employees who understand the needs of their users	1.72	1.32	1.45	1.75	1.54	5,580
AS-8	Willingness to help users	1.73	1.33	1.43	1.78	1.50	5,674
AS-9	Dependability in handling users' service problems	1.69	1.28	1.49	1.79	1.56	5,016
<b>Information Control</b>							
IC-1	Making electronic resources accessible from my home or office	1.68	1.02	1.60	2.00	1.71	5,934
IC-2	A library Web site enabling me to locate information on my own	1.60	1.06	1.58	1.96	1.68	5,972
IC-3	The printed library materials I need for my work	1.74	1.40	1.59	1.96	1.77	5,504
IC-4	The electronic information resources I need	1.56	1.03	1.43	1.85	1.56	5,935
IC-5	Modern equipment that lets me easily access needed information	1.58	1.09	1.42	1.76	1.52	5,817
IC-6	Easy-to-use access tools that allow me to find things on my own	1.58	1.08	1.42	1.80	1.52	5,882
IC-7	Making information easily accessible for independent use	1.57	1.07	1.37	1.77	1.47	5,808
IC-8	Print and/or electronic journal collections I require for my work	1.58	1.03	1.55	2.01	1.70	5,802
<b>Library as Place</b>							
LP-1	Library space that inspires study and learning	1.94	1.60	1.86	2.31	2.22	5,765
LP-2	Quiet space for individual activities	1.95	1.62	1.81	2.41	2.22	5,608
LP-3	A comfortable and inviting location	1.84	1.41	1.70	2.16	1.95	5,785
LP-4	A getaway for study, learning, or research	1.91	1.55	1.64	2.08	1.93	5,626
LP-5	Community space for group learning and group study	2.16	1.99	1.78	2.34	2.28	5,030
<b>Overall:</b>		1.32	0.88	1.11	1.39	1.14	6,014

Language: American English  
Institution Type: College or University  
Consortium: ARL  
User Group: Graduate

### 6.3 Core Question Dimensions Summary for Graduate

On the chart below, scores for each dimension of library service quality have been plotted graphically. The exterior bars represent the range of minimum to desired mean scores for each dimension. The interior bars represent the range of minimum to perceived mean scores (the service adequacy gap) for each dimension of library service quality.



Language: American English  
 Institution Type: College or University  
 Consortium: ARL  
 User Group: Graduate

The following table displays mean scores for each dimension of library service quality measured by the LibQUAL+® survey, where n is the number of respondents for each particular dimension. (For a more detailed explanation of the headings, see the Introduction to this notebook.) A complete listing of the survey questions and their dimensions can be found in Appendix A.

Dimension	Minimum Mean	Desired Mean	Perceived Mean	Adequacy Mean	Superiority Mean	n
Affect of Service	6.42	7.83	7.19	0.77	-0.64	5,997
Information Control	6.98	8.33	7.24	0.26	-1.09	6,014
Library as Place	6.20	7.69	6.76	0.57	-0.93	5,943
<b>Overall:</b>	6.58	7.99	7.11	0.53	-0.88	6,014

The following table displays standard deviation for each dimension of library service quality measured by the LibQUAL+® survey, where n is the number of respondents for each particular dimension. (For a more detailed explanation of the headings, see the Introduction to this notebook.) A complete listing of the survey questions and their dimensions can be found in Appendix A.

Dimension	Minimum SD	Desired SD	Perceived SD	Adequacy SD	Superiority SD	n
Affect of Service	1.80	1.40	1.54	1.82	1.59	5,997
Information Control	1.62	1.11	1.50	1.90	1.62	6,014
Library as Place	1.97	1.66	1.77	2.27	2.14	5,943
<b>Overall:</b>	1.32	0.88	1.11	1.39	1.14	6,014

Language: American English  
 Institution Type: College or University  
 Consortium: ARL  
 User Group: Graduate

## 6.4 Local Questions Summary for Graduate

This table shows mean scores for each of the local questions added by the individual library or consortium, where n is the number of respondents for each particular question. (For a more detailed explanation of the headings, see the Introduction to this notebook.)

Question Text	Minimum Mean	Desired Mean	Perceived Mean	Adequacy Mean	Superiority Mean	n
Convenience of borrowing books from other colleges	6.20	8.05	7.14	0.94	-0.91	406
Availability of online help when using my library's electronic resources	6.11	7.65	6.80	0.69	-0.84	721
An environment that facilitates group study and problem solving	5.28	7.03	6.08	0.80	-0.95	75
Ease of use of electronic resources	6.65	8.20	7.16	0.51	-1.04	1,782
Providing help when and where I need it	6.47	7.81	7.12	0.66	-0.68	288
Providing information that answers my questions	6.86	8.04	7.35	0.49	-0.69	1,115
Teaching me how to access, evaluate, and use information	5.85	7.37	6.67	0.82	-0.71	451
Online course support (readings, links, references)	6.51	7.91	6.80	0.29	-1.11	607
Collections of online full-text articles sufficient to meet my needs	7.16	8.38	7.11	-0.05	-1.28	1,129
Electronic resources matching my information needs	7.00	8.41	7.16	0.16	-1.25	637
Library staff teaching me how to find information	5.90	7.40	7.35	1.45	-0.05	329
Library keeping me informed about all of its services	5.62	7.01	6.33	0.71	-0.68	838
The multimedia (CD / DVD / video / audio) collections I need	5.30	6.93	6.29	0.99	-0.64	311
Access to photocopying and printing facilities	6.00	7.69	6.29	0.28	-1.40	226
Availability of subject specialist assistance	5.87	7.42	6.70	0.83	-0.72	1,475
Helpfulness in dealing with users' IT problems	6.63	7.82	7.10	0.47	-0.72	579
Library staff teaching me how to effectively use the electronically available databases, journals, and books	6.18	7.58	7.28	1.10	-0.30	730
Making me aware of library resources and services	5.99	7.49	6.89	0.91	-0.60	1,257
Teaching me how to locate, evaluate, and use information	5.74	7.40	6.81	1.07	-0.58	832
Efficient interlibrary loan / document delivery	6.62	8.13	7.55	0.94	-0.57	191
Access to rare and historical materials, particularly those of LDS origin.	4.59	6.34	7.26	2.67	0.92	276
Convenient service hours	6.98	8.23	7.43	0.46	-0.80	771
Ability to navigate library Web pages easily	7.02	8.38	6.97	-0.05	-1.41	1,645
A center for intellectual stimulation	6.36	7.58	6.34	-0.02	-1.24	109
Access to archives, special collections	6.10	7.68	6.89	0.79	-0.79	62
Browsing library materials in the stacks	6.13	7.57	6.91	0.78	-0.66	583
Convenient business hours	6.76	8.32	7.16	0.40	-1.16	441
Employees who appear to enjoy what they do	6.00	6.50	7.00	1.00	0.50	2

Language: American English

Institution Type: College or University

Consortium: ARL

User Group: Graduate

Enabling me to find information myself 24 hours a day	7.10	8.46	7.62	0.51	-0.84	183
Full-text delivered electronically to individual computer	7.00	7.50	6.50	-0.50	-1.00	2
Timely document delivery / interlibrary loan	6.93	8.25	7.42	0.49	-0.83	604
Personalization features in the electronic library	5.47	7.12	6.02	0.54	-1.11	133
Space for students to study and work in groups	6.05	7.34	7.05	1.00	-0.29	1,246
Adequate hours of service	6.97	8.21	7.46	0.49	-0.75	2,015
Librarians working with teams or individuals to fulfill specialized knowledge requirements	6.11	7.37	6.74	0.62	-0.63	87
Library staff providing help that assists in finding information needed now while improving my research skills	6.27	7.74	7.38	1.11	-0.36	246
Ease and timeliness in getting materials from other libraries	6.75	8.22	7.55	0.80	-0.67	448
An online catalog that is user-friendly for finding materials	7.11	8.48	7.00	-0.11	-1.47	1,124

Language: American English  
 Institution Type: College or University  
 Consortium: ARL  
 User Group: Graduate

This table displays the standard deviation for each of the local questions added by the individual library or consortium, where n is the number of respondents for each particular question. (For a more detailed explanation of the headings, see the Introduction to this notebook.)

Question Text	Minimum SD	Desired SD	Perceived SD	Adequacy SD	Superiority SD	n
Convenience of borrowing books from other colleges	1.93	1.45	1.68	2.11	1.86	406
Availability of online help when using my library's electronic resources	1.90	1.52	1.60	1.95	1.79	721
An environment that facilitates group study and problem solving	2.10	2.00	1.90	2.37	2.51	75
Ease of use of electronic resources	1.61	1.16	1.42	1.79	1.57	1,782
Providing help when and where I need it	1.68	1.38	1.43	1.72	1.51	288
Providing information that answers my questions	1.58	1.17	1.32	1.58	1.33	1,115
Teaching me how to access, evaluate, and use information	1.79	1.64	1.58	1.88	1.77	451
Online course support (readings, links, references)	1.92	1.44	1.63	1.95	1.75	607
Collections of online full-text articles sufficient to meet my needs	1.62	1.06	1.58	2.11	1.74	1,129
Electronic resources matching my information needs	1.48	0.98	1.33	1.71	1.50	637
Library staff teaching me how to find information	2.10	1.84	1.49	1.87	1.66	329
Library keeping me informed about all of its services	2.05	1.82	1.79	2.12	1.95	838
The multimedia (CD / DVD / video / audio) collections I need	2.12	1.97	1.71	2.20	2.12	311
Access to photocopying and printing facilities	2.00	1.70	1.77	2.39	2.36	226
Availability of subject specialist assistance	1.98	1.66	1.72	1.97	1.80	1,475
Helpfulness in dealing with users' IT problems	1.77	1.50	1.59	1.80	1.73	579
Library staff teaching me how to effectively use the electronically available databases, journals, and books	1.92	1.62	1.56	1.94	1.68	730
Making me aware of library resources and services	1.93	1.59	1.57	2.06	1.84	1,257
Teaching me how to locate, evaluate, and use information	2.00	1.76	1.53	1.92	1.81	832
Efficient interlibrary loan / document delivery	1.99	1.32	1.55	2.28	1.69	191
Access to rare and historical materials, particularly those of LDS origin.	2.31	2.35	1.52	2.44	2.43	276
Convenient service hours	1.71	1.27	1.55	1.96	1.74	771
Ability to navigate library Web pages easily	1.59	1.06	1.63	2.00	1.79	1,645
A center for intellectual stimulation	1.70	1.54	1.84	2.02	1.97	109
Access to archives, special collections	2.34	1.82	1.86	2.44	2.39	62
Browsing library materials in the stacks	1.91	1.62	1.59	1.94	1.78	583
Convenient business hours	1.73	1.09	1.65	2.12	1.82	441
Employees who appear to enjoy what they do	1.41	0.71	0.00	1.41	0.71	2
Enabling me to find information myself 24 hours a day	1.68	0.94	1.44	1.88	1.58	183

Language: American English

Institution Type: College or University

Consortium: ARL

User Group: Graduate



Full-text delivered electronically to individual computer	0.00	0.71	0.71	0.71	0.00	2
Timely document delivery / interlibrary loan	1.65	1.17	1.44	1.79	1.46	604
Personalization features in the electronic library	2.05	1.87	1.95	1.99	1.93	133
Space for students to study and work in groups	2.10	1.90	1.60	2.10	1.95	1,246
Adequate hours of service	1.64	1.20	1.57	2.02	1.79	2,015
Librarians working with teams or individuals to fulfill specialized knowledge requirements	2.03	1.77	1.58	2.08	1.79	87
Library staff providing help that assists in finding information needed now while improving my research skills	1.78	1.55	1.40	1.76	1.29	246
Ease and timeliness in getting materials from other libraries	1.66	1.07	1.41	1.92	1.59	448
An online catalog that is user-friendly for finding materials	1.53	0.93	1.59	1.94	1.70	1,124

Language: American English  
 Institution Type: College or University  
 Consortium: ARL  
 User Group: Graduate

## 6.5 General Satisfaction Questions Summary for Graduate

This table displays mean score and standard deviation for each of the general satisfaction questions: Satisfaction with Treatment, Satisfaction with Support, and Satisfaction with Overall Quality of Service, where n is the number of respondents for each particular question. These scores are calculated from responses to the general satisfaction questions on the LibQUAL+® survey, in which respondents rated their levels of general satisfaction on a scale from 1-9.

Satisfaction Question	Mean	SD	n
In general, I am satisfied with the way in which I am treated at the library.	7.52	1.49	6,012
In general, I am satisfied with library support for my learning, research, and/or teaching needs.	7.21	1.59	6,014
How would you rate the overall quality of the service provided by the library?	7.34	1.33	6,014

## 6.6 Information Literacy Outcomes Questions Summary for Graduate

This table displays the mean score and standard deviation for each of the information literacy outcomes questions, where n is the number of respondents for each particular question. These scores are calculated from responses to the information literacy outcomes questions on the LibQUAL+® survey, in which respondents rated their levels of general satisfaction on a scale from 1-9 with 1 being "strongly disagree" and 9 representing "strongly agree".

Information Literacy Outcomes Questions	Mean	SD	n
The library helps me stay abreast of developments in my field(s) of interest.	6.38	1.90	6,014
The library aids my advancement in my academic discipline or work.	7.27	1.56	6,013
The library enables me to be more efficient in my academic pursuits or work.	7.24	1.62	6,014
The library helps me distinguish between trustworthy and untrustworthy information.	5.92	1.98	6,014
The library provides me with the information skills I need in my work or study.	6.53	1.81	6,014

Language: American English

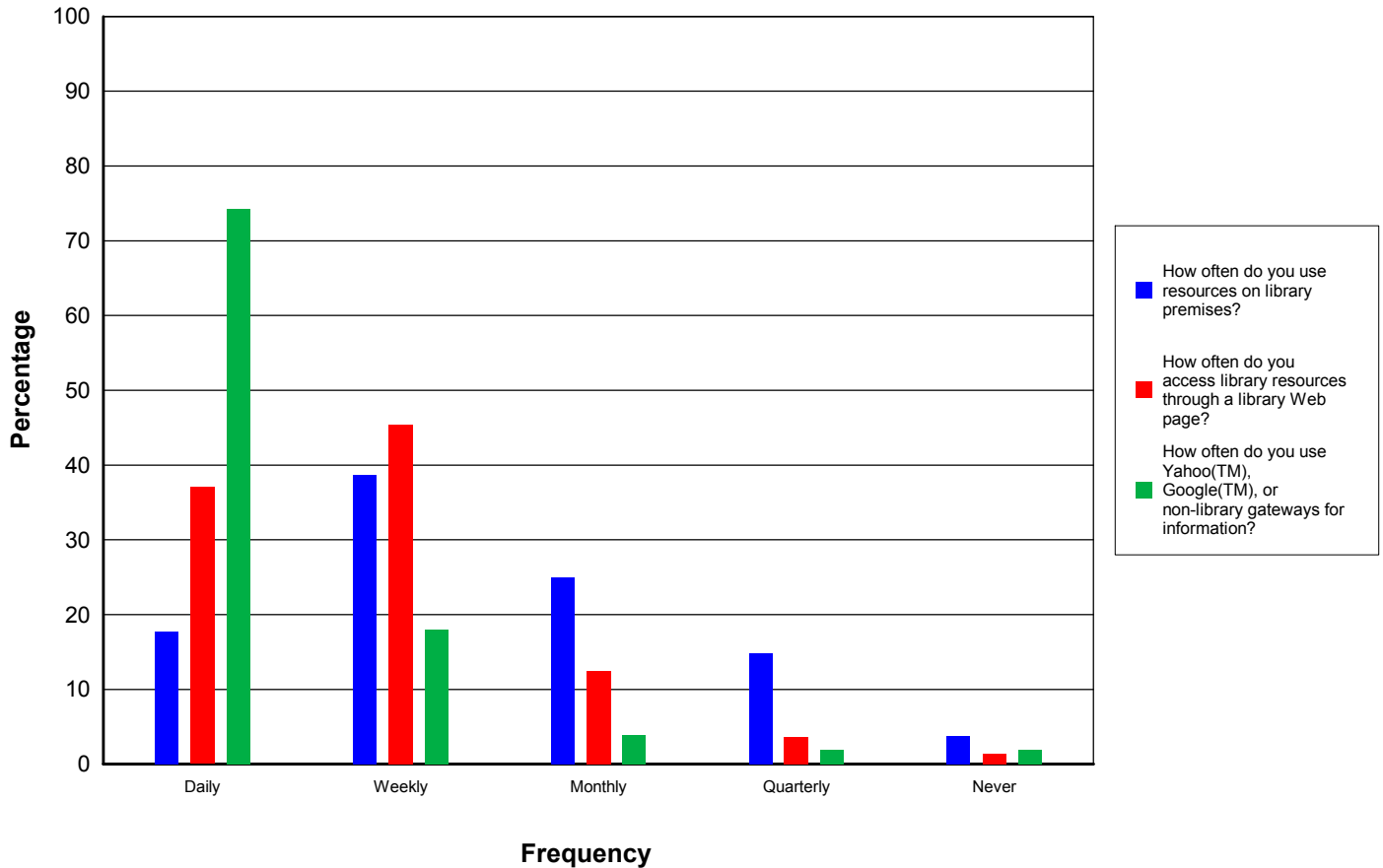
Institution Type: College or University

Consortium: ARL

User Group: Graduate

### 6.7 Library Use Summary for Graduate

This chart shows a graphic representation of library use (both on the premises and electronically), as well as use of non-library information gateways such as Yahoo™ and Google™. Bars represent the frequency with which respondents report using these resources: Daily, Weekly, Monthly, Quarterly, or Never. The table below the chart displays the number and percentage of respondents who selected each option.



	Daily	Weekly	Monthly	Quarterly	Never	n / %
How often do you use resources on library premises?	1,065 17.71%	2,326 38.68%	1,499 24.93%	895 14.88%	229 3.81%	<b>6,014</b> <b>100.00%</b>
How often do you access library resources through a library Web page?	2,228 37.05%	2,734 45.47%	747 12.42%	222 3.69%	82 1.36%	<b>6,013</b> <b>100.00%</b>
How often do you use Yahoo(TM), Google(TM), or non-library gateways for information?	4,468 74.31%	1,080 17.96%	231 3.84%	116 1.93%	118 1.96%	<b>6,013</b> <b>100.00%</b>

Language: American English  
 Institution Type: College or University  
 Consortium: ARL  
 User Group: Graduate

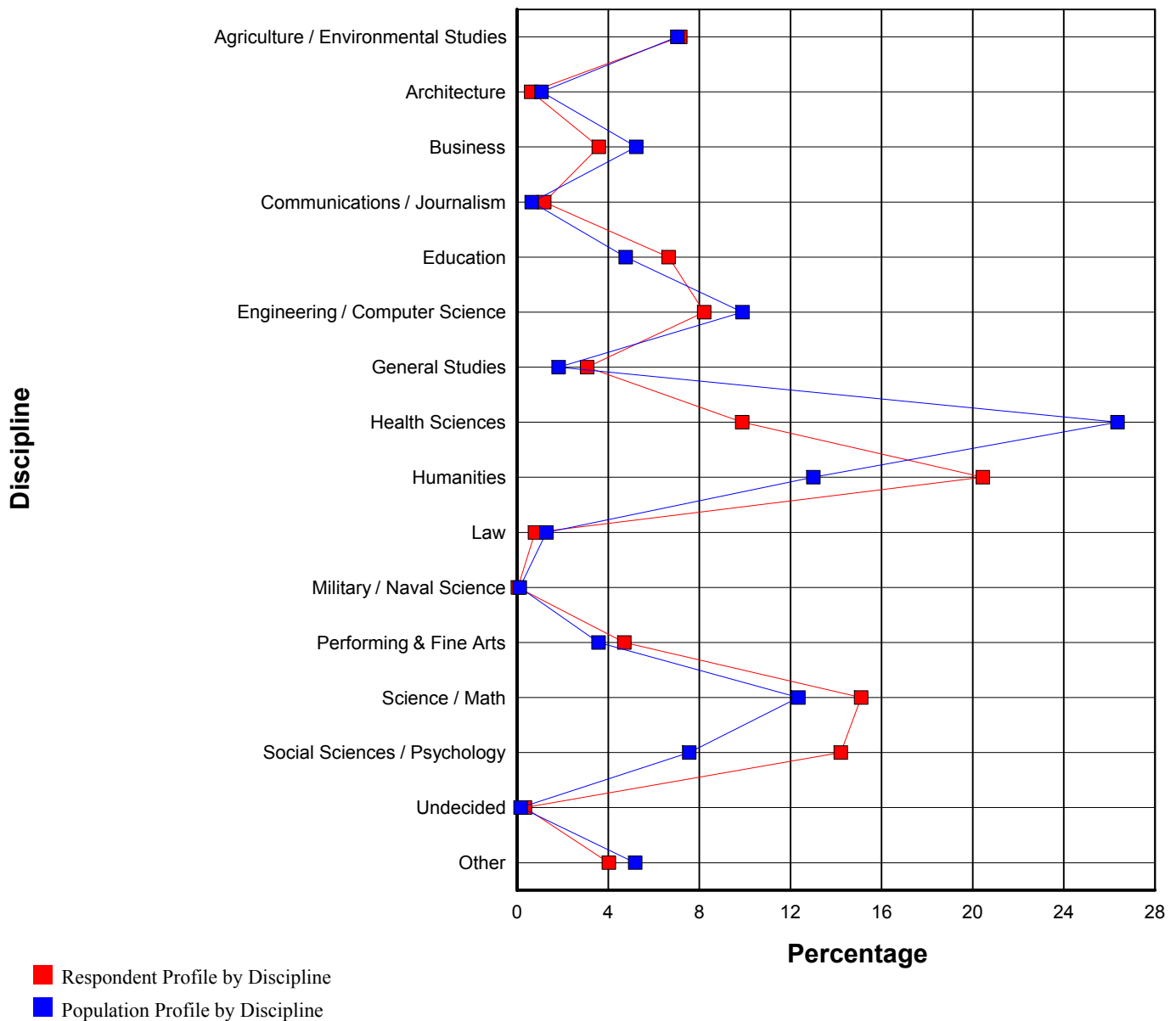
## 7 College or University Libraries Faculty Summary for ARL

### 7.1 Demographic Summary for Faculty

#### 7.1.1 Population and Respondent Profiles for Faculty by Discipline

The chart and table below show a breakdown of survey respondents by standard discipline, based on user responses to the demographic questions and the demographic data provided by institutions in the online Representativeness section.

The chart maps percentage of respondents for each discipline in red. Population percentages for each discipline are mapped in blue. The table shows the number and percentage for each discipline, for both the general population (N) and survey respondents (n).



Language: American English  
 Institution Type: College or University  
 Consortium: ARL  
 User Group: Faculty

<b>Discipline</b>	<b>Population N</b>	<b>Population %</b>	<b>Respondents n</b>	<b>Respondents %</b>	<b>%N - %n</b>
Agriculture / Environmental Studies	2,448	7.03%	210	7.16%	-0.13%
Architecture	372	1.07%	18	0.61%	0.45%
Business	1,824	5.23%	105	3.58%	1.66%
Communications / Journalism	223	0.64%	35	1.19%	-0.55%
Education	1,659	4.76%	195	6.65%	-1.88%
Engineering / Computer Science	3,445	9.89%	241	8.21%	1.67%
General Studies	634	1.82%	90	3.07%	-1.25%
Health Sciences	9,184	26.36%	290	9.88%	16.47%
Humanities	4,531	13.00%	600	20.45%	-7.45%
Law	448	1.29%	23	0.78%	0.50%
Military / Naval Science	38	0.11%	1	0.03%	0.07%
Performing & Fine Arts	1,243	3.57%	138	4.70%	-1.14%
Science / Math	4,304	12.35%	443	15.10%	-2.75%
Social Sciences / Psychology	2,631	7.55%	417	14.21%	-6.66%
Undecided	52	0.15%	10	0.34%	-0.19%
Other	1,807	5.19%	118	4.02%	1.16%
<b>Total:</b>	<b>34,843</b>	<b>100.00%</b>	<b>2,934</b>	<b>100.00%</b>	<b>0.00%</b>

Language: American English  
Institution Type: College or University  
Consortium: ARL  
User Group: Faculty

### 7.1.2 Respondent Profile for Faculty by Age:

This table shows a breakdown of survey respondents by age; both the number of respondents (n) and the percentage of the total number of respondents represented by each age group are displayed.

Age:	Respondents n	Respondents %
Under 18	3	0.10%
18 - 22	2	0.07%
23 - 30	130	4.42%
31 - 45	1,062	36.15%
46 - 65	1,505	51.23%
Over 65	236	8.03%
<b>Total:</b>	<b>2,938</b>	<b>100.00%</b>

### 7.1.3 Population and Respondent Profiles for Faculty by Sex:

The table below shows a breakdown of survey respondents by sex, based on user responses to the demographic questions and the demographic data provided by institutions in the online Representativeness section\*. The number and percentage for each sex are given for the general population and for survey respondents.

\*Note: Participating institutions were not required to complete the Representativeness section. When population data is missing or incomplete, it is because this data was not provided.

Sex:	Population N	Population %	Respondents n	Respondents %
Male	321,440	51.94%	1,748	59.58%
Female	297,422	48.06%	1,186	40.42%
<b>Total:</b>	<b>618,862</b>	<b>100.00%</b>	<b>2,934</b>	<b>100.00%</b>

Language: American English

Institution Type: College or University

Consortium: ARL

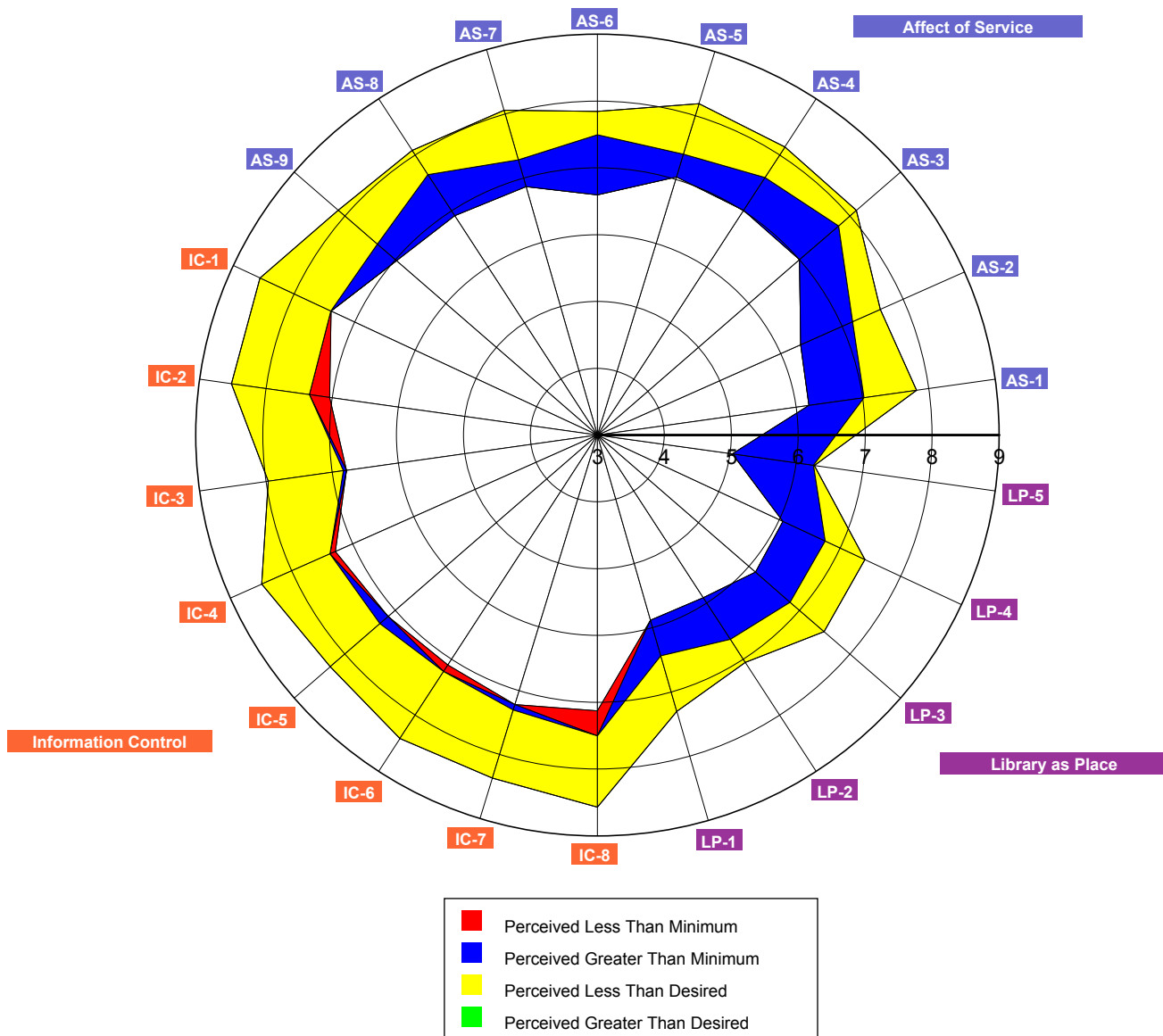
User Group: Faculty

## 7.2 Core Questions Summary for Faculty

This radar chart shows aggregate results for the core survey questions. Each axis represents one question. A code to identify each question is displayed at the outer point of each axis. While questions for each dimension of library service quality are scattered randomly throughout the survey, on this chart they are grouped into sections: Affect of Service, Library as Place, and Information Control.

On each axis, respondents' minimum, desired, and perceived levels of service quality are plotted, and the resulting "gaps" between the three levels (representing service adequacy and service superiority) are shaded in blue, yellow, green, and red.

The two following tables show mean scores and standard deviations for each question, where n is the number of respondents for each particular question. (For a more detailed explanation of the headings, see the Introduction to this notebook.)



Language: American English  
 Institution Type: College or University  
 Consortium: ARL  
 User Group: Faculty

ID	Question Text	Minimum Mean	Desired Mean	Perceived Mean	Adequacy Mean	Superiority Mean	n
<b>Affect of Service</b>							
AS-1	Employees who instill confidence in users	6.19	7.82	7.03	0.84	-0.79	2,773
AS-2	Giving users individual attention	6.32	7.63	7.17	0.85	-0.45	2,796
AS-3	Employees who are consistently courteous	7.00	8.13	7.77	0.77	-0.35	2,877
AS-4	Readiness to respond to users' questions	7.01	8.14	7.60	0.58	-0.55	2,859
AS-5	Employees who have the knowledge to answer user questions	7.04	8.19	7.40	0.36	-0.79	2,802
AS-6	Employees who deal with users in a caring fashion	6.60	7.84	7.49	0.90	-0.35	2,773
AS-7	Employees who understand the needs of their users	6.87	8.06	7.28	0.41	-0.78	2,771
AS-8	Willingness to help users	6.92	8.08	7.65	0.73	-0.43	2,799
AS-9	Dependability in handling users' service problems	6.98	8.13	7.36	0.38	-0.77	2,540
<b>Information Control</b>							
IC-1	Making electronic resources accessible from my home or office	7.39	8.56	7.39	0.00	-1.17	2,885
IC-2	A library Web site enabling me to locate information on my own	7.35	8.52	7.04	-0.31	-1.48	2,906
IC-3	The printed library materials I need for my work	6.79	7.96	6.83	0.05	-1.13	2,718
IC-4	The electronic information resources I need	7.37	8.49	7.29	-0.09	-1.20	2,895
IC-5	Modern equipment that lets me easily access needed information	7.14	8.29	7.31	0.17	-0.98	2,777
IC-6	Easy-to-use access tools that allow me to find things on my own	7.22	8.42	7.10	-0.12	-1.31	2,871
IC-7	Making information easily accessible for independent use	7.22	8.37	7.30	0.08	-1.07	2,804
IC-8	Print and/or electronic journal collections I require for my work	7.50	8.57	7.13	-0.38	-1.44	2,848
<b>Library as Place</b>							
LP-1	Library space that inspires study and learning	5.88	7.30	6.44	0.55	-0.87	2,570
LP-2	Quiet space for individual activities	5.90	7.06	6.65	0.74	-0.41	2,357
LP-3	A comfortable and inviting location	6.13	7.49	6.82	0.69	-0.67	2,674
LP-4	A getaway for study, learning, or research	6.06	7.41	6.76	0.70	-0.66	2,437
LP-5	Community space for group learning and group study	5.04	6.27	6.26	1.22	-0.01	1,909
<b>Overall:</b>		6.78	7.99	7.17	0.39	-0.83	2,939

Language: American English

Institution Type: College or University

Consortium: ARL

User Group: Faculty

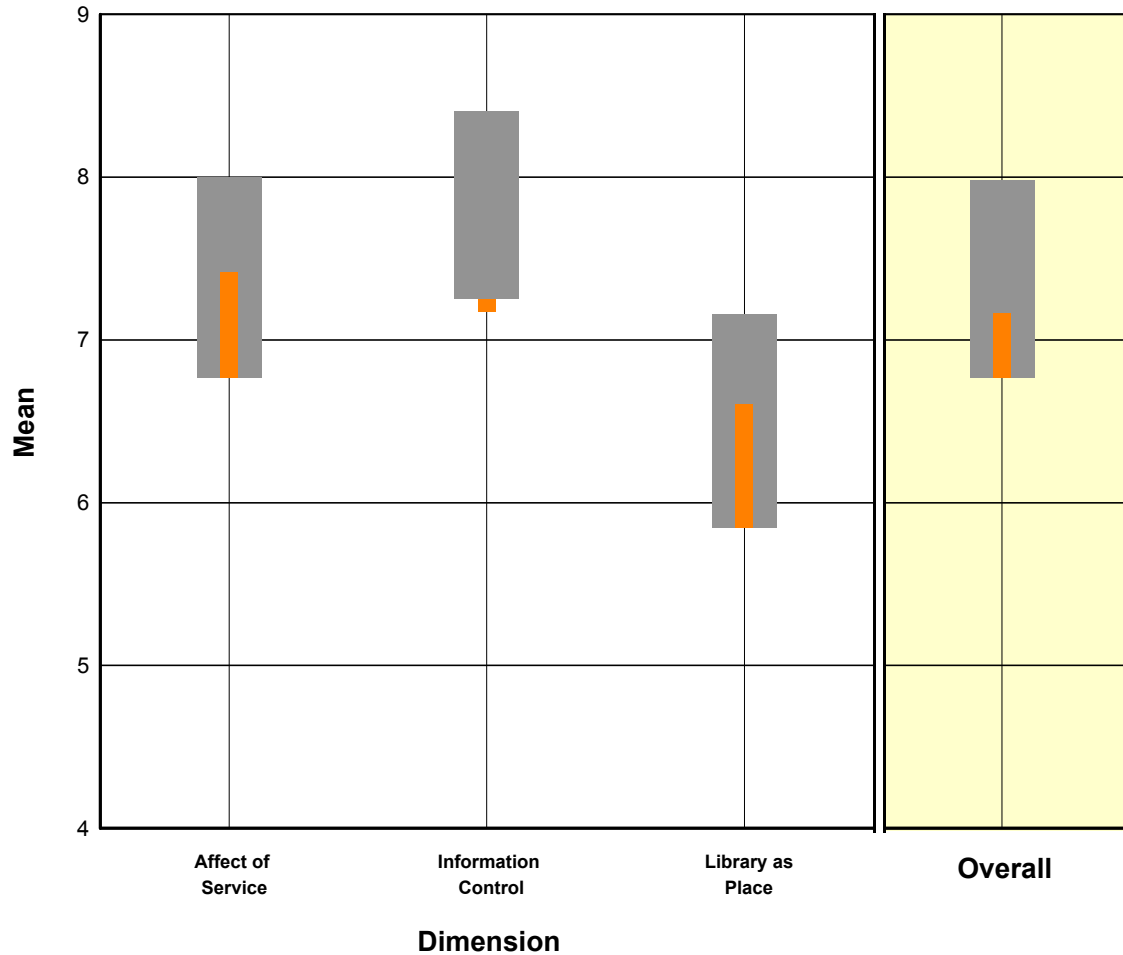


ID	Question Text	Minimum SD	Desired SD	Perceived SD	Adequacy SD	Superiority SD	n
<b>Affect of Service</b>							
AS-1	Employees who instill confidence in users	1.85	1.51	1.63	1.90	1.73	2,773
AS-2	Giving users individual attention	1.88	1.58	1.64	1.82	1.63	2,796
AS-3	Employees who are consistently courteous	1.76	1.29	1.42	1.85	1.54	2,877
AS-4	Readiness to respond to users' questions	1.63	1.22	1.43	1.70	1.46	2,859
AS-5	Employees who have the knowledge to answer user questions	1.60	1.19	1.50	1.79	1.61	2,802
AS-6	Employees who deal with users in a caring fashion	1.83	1.50	1.48	1.78	1.57	2,773
AS-7	Employees who understand the needs of their users	1.68	1.28	1.58	1.83	1.64	2,771
AS-8	Willingness to help users	1.71	1.31	1.43	1.74	1.49	2,799
AS-9	Dependability in handling users' service problems	1.63	1.24	1.53	1.82	1.60	2,540
<b>Information Control</b>							
IC-1	Making electronic resources accessible from my home or office	1.57	0.99	1.61	1.93	1.68	2,885
IC-2	A library Web site enabling me to locate information on my own	1.51	0.95	1.66	1.98	1.73	2,906
IC-3	The printed library materials I need for my work	1.79	1.49	1.72	2.16	1.99	2,718
IC-4	The electronic information resources I need	1.47	1.01	1.49	1.85	1.62	2,895
IC-5	Modern equipment that lets me easily access needed information	1.59	1.13	1.46	1.79	1.54	2,777
IC-6	Easy-to-use access tools that allow me to find things on my own	1.47	0.99	1.51	1.88	1.66	2,871
IC-7	Making information easily accessible for independent use	1.49	1.01	1.45	1.80	1.56	2,804
IC-8	Print and/or electronic journal collections I require for my work	1.48	0.94	1.68	2.05	1.79	2,848
<b>Library as Place</b>							
LP-1	Library space that inspires study and learning	2.08	1.92	1.92	2.48	2.46	2,570
LP-2	Quiet space for individual activities	2.23	2.13	1.83	2.36	2.34	2,357
LP-3	A comfortable and inviting location	1.93	1.73	1.82	2.27	2.21	2,674
LP-4	A getaway for study, learning, or research	2.14	1.96	1.79	2.33	2.28	2,437
LP-5	Community space for group learning and group study	2.32	2.37	1.90	2.41	2.51	1,909
<b>Overall:</b>		1.29	0.90	1.16	1.41	1.20	2,939

Language: American English  
Institution Type: College or University  
Consortium: ARL  
User Group: Faculty

### 7.3 Core Question Dimensions Summary for Faculty

On the chart below, scores for each dimension of library service quality have been plotted graphically. The exterior bars represent the range of minimum to desired mean scores for each dimension. The interior bars represent the range of minimum to perceived mean scores (the service adequacy gap) for each dimension of library service quality.



Range of Minimum to Desired  
 Range of Minimum to Perceived ("Adequacy Gap")

Language: American English  
 Institution Type: College or University  
 Consortium: ARL  
 User Group: Faculty

The following table displays mean scores for each dimension of library service quality measured by the LibQUAL+® survey, where n is the number of respondents for each particular dimension. (For a more detailed explanation of the headings, see the Introduction to this notebook.) A complete listing of the survey questions and their dimensions can be found in Appendix A.

Dimension	Minimum Mean	Desired Mean	Perceived Mean	Adequacy Mean	Superiority Mean	n
Affect of Service	6.77	8.00	7.42	0.65	-0.58	2,938
Information Control	7.25	8.40	7.18	-0.08	-1.23	2,939
Library as Place	5.84	7.15	6.60	0.76	-0.55	2,826
<b>Overall:</b>	6.78	7.99	7.17	0.39	-0.83	2,939

The following table displays standard deviation for each dimension of library service quality measured by the LibQUAL+® survey, where n is the number of respondents for each particular dimension. (For a more detailed explanation of the headings, see the Introduction to this notebook.) A complete listing of the survey questions and their dimensions can be found in Appendix A.

Dimension	Minimum SD	Desired SD	Perceived SD	Adequacy SD	Superiority SD	n
Affect of Service	1.76	1.37	1.53	1.81	1.60	2,938
Information Control	1.56	1.09	1.58	1.94	1.71	2,939
Library as Place	2.16	2.05	1.86	2.38	2.37	2,826
<b>Overall:</b>	1.29	0.90	1.16	1.41	1.20	2,939

Language: American English  
 Institution Type: College or University  
 Consortium: ARL  
 User Group: Faculty

## 7.4 Local Questions Summary for Faculty

This table shows mean scores for each of the local questions added by the individual library or consortium, where n is the number of respondents for each particular question. (For a more detailed explanation of the headings, see the Introduction to this notebook.)

Question Text	Minimum Mean	Desired Mean	Perceived Mean	Adequacy Mean	Superiority Mean	n
Convenience of borrowing books from other colleges	7.00	8.19	7.73	0.73	-0.46	218
Availability of online help when using my library's electronic resources	6.15	7.51	6.39	0.24	-1.12	519
An environment that facilitates group study and problem solving	4.83	5.79	6.11	1.28	0.32	53
Ease of use of electronic resources	6.79	8.24	7.01	0.22	-1.23	466
Providing help when and where I need it	6.60	7.93	7.07	0.47	-0.86	137
Providing information that answers my questions	7.75	8.75	8.50	0.75	-0.25	4
Teaching me how to access, evaluate, and use information	5.83	7.10	6.49	0.66	-0.61	120
Online course support (readings, links, references)	6.59	7.77	7.00	0.41	-0.77	470
Collections of online full-text articles sufficient to meet my needs	8.00	8.50	8.00	0.00	-0.50	4
Electronic resources matching my information needs	7.26	8.59	7.24	-0.02	-1.35	255
Library staff teaching me how to find information	6.24	7.33	7.36	1.12	0.03	171
Library keeping me informed about all of its services	5.53	6.79	6.38	0.85	-0.40	302
The multimedia (CD / DVD / video / audio) collections I need	5.97	7.29	6.10	0.13	-1.19	271
Access to photocopying and printing facilities	5.83	7.18	5.97	0.14	-1.20	159
Availability of subject specialist assistance	6.23	7.49	6.94	0.71	-0.55	1,062
Helpfulness in dealing with users' IT problems	7.03	8.04	7.15	0.13	-0.89	394
Library staff teaching me how to effectively use the electronically available databases, journals, and books	6.52	7.62	7.40	0.88	-0.22	259
Making me aware of library resources and services	6.34	7.58	7.05	0.72	-0.53	954
Teaching me how to locate, evaluate, and use information	6.11	7.46	6.99	0.88	-0.47	495
Efficient interlibrary loan / document delivery	6.99	8.18	7.35	0.36	-0.83	132
Access to rare and historical materials, particularly those of LDS origin.	5.12	6.37	7.10	1.98	0.73	246
Convenient service hours	6.68	7.93	7.23	0.56	-0.70	627
Ability to navigate library Web pages easily	7.26	8.45	6.88	-0.38	-1.57	918
A center for intellectual stimulation	5.96	7.24	5.93	-0.04	-1.31	80
Access to archives, special collections	5.97	7.32	6.54	0.57	-0.78	196
Browsing library materials in the stacks	6.20	7.37	6.95	0.75	-0.42	225
Convenient business hours	6.81	8.08	7.66	0.86	-0.41	167
Employees who appear to enjoy what they do	6.33	7.22	7.11	0.78	-0.11	9

Language: American English

Institution Type: College or University

Consortium: ARL

User Group: Faculty

Enabling me to find information myself 24 hours a day	7.29	8.26	7.73	0.43	-0.54	99
Full-text delivered electronically to individual computer	7.50	8.30	7.30	-0.20	-1.00	10
Timely document delivery / interlibrary loan	7.15	8.30	7.52	0.38	-0.77	261
Personalization features in the electronic library	5.55	6.65	5.88	0.33	-0.77	69
Space for students to study and work in groups	4.94	6.42	6.28	1.34	-0.14	86
Adequate hours of service	6.93	7.99	7.30	0.37	-0.68	446
Librarians working with teams or individuals to fulfill specialized knowledge requirements	5.67	7.03	6.33	0.66	-0.70	70
Library staff providing help that assists in finding information needed now while improving my research skills	6.74	7.90	7.81	1.07	-0.10	104
Ease and timeliness in getting materials from other libraries	7.19	8.42	7.76	0.57	-0.66	351
An online catalog that is user-friendly for finding materials	7.38	8.54	7.02	-0.36	-1.52	390

Language: American English  
Institution Type: College or University  
Consortium: ARL  
User Group: Faculty

This table displays the standard deviation for each of the local questions added by the individual library or consortium, where n is the number of respondents for each particular question. (For a more detailed explanation of the headings, see the Introduction to this notebook.)

Question Text	Minimum SD	Desired SD	Perceived SD	Adequacy SD	Superiority SD	n
Convenience of borrowing books from other colleges	1.67	1.32	1.33	1.76	1.54	218
Availability of online help when using my library's electronic resources	1.91	1.74	1.78	2.08	1.96	519
An environment that facilitates group study and problem solving	2.24	2.48	1.86	2.04	2.28	53
Ease of use of electronic resources	1.53	1.18	1.44	1.82	1.66	466
Providing help when and where I need it	1.75	1.32	1.55	1.98	1.59	137
Providing information that answers my questions	0.50	0.50	1.00	0.50	0.50	4
Teaching me how to access, evaluate, and use information	2.03	1.99	1.84	2.10	1.98	120
Online course support (readings, links, references)	2.12	1.84	1.71	2.16	1.88	470
Collections of online full-text articles sufficient to meet my needs	0.82	0.58	0.82	0.00	0.58	4
Electronic resources matching my information needs	1.39	0.75	1.37	1.73	1.55	255
Library staff teaching me how to find information	2.05	1.97	1.57	2.01	1.97	171
Library keeping me informed about all of its services	2.04	1.98	1.68	2.04	1.91	302
The multimedia (CD / DVD / video / audio) collections I need	2.05	1.97	1.99	2.37	2.20	271
Access to photocopying and printing facilities	2.13	1.95	1.79	2.45	2.35	159
Availability of subject specialist assistance	1.98	1.78	1.77	2.03	1.82	1,062
Helpfulness in dealing with users' IT problems	1.72	1.38	1.68	1.87	1.64	394
Library staff teaching me how to effectively use the electronically available databases, journals, and books	1.81	1.71	1.71	1.95	2.01	259
Making me aware of library resources and services	1.84	1.55	1.64	2.00	1.82	954
Teaching me how to locate, evaluate, and use information	2.04	1.80	1.58	1.93	1.78	495
Efficient interlibrary loan / document delivery	1.85	1.25	1.76	1.95	1.61	132
Access to rare and historical materials, particularly those of LDS origin.	2.46	2.54	1.71	2.61	2.54	246
Convenient service hours	1.79	1.43	1.56	2.10	1.84	627
Ability to navigate library Web pages easily	1.51	0.98	1.70	2.14	1.89	918
A center for intellectual stimulation	2.12	1.94	2.23	1.75	2.35	80
Access to archives, special collections	2.18	1.84	1.78	2.66	2.46	196
Browsing library materials in the stacks	2.01	1.84	1.71	2.10	2.19	225
Convenient business hours	1.87	1.41	1.36	1.65	1.41	167
Employees who appear to enjoy what they do	2.55	2.59	2.09	1.92	2.26	9
Enabling me to find information myself 24 hours a day	1.63	1.31	1.31	1.60	1.55	99

Language: American English

Institution Type: College or University

Consortium: ARL

User Group: Faculty

Full-text delivered electronically to individual computer	1.43	1.34	1.57	1.23	1.41	10
Timely document delivery / interlibrary loan	1.59	1.15	1.53	1.89	1.68	261
Personalization features in the electronic library	2.43	2.47	2.10	1.86	1.99	69
Space for students to study and work in groups	2.26	2.08	1.75	2.08	2.07	86
Adequate hours of service	1.60	1.37	1.62	2.11	1.99	446
Librarians working with teams or individuals to fulfill specialized knowledge requirements	1.99	1.99	2.06	1.71	1.55	70
Library staff providing help that assists in finding information needed now while improving my research skills	1.72	1.48	1.29	1.47	1.19	104
Ease and timeliness in getting materials from other libraries	1.60	0.99	1.48	1.78	1.47	351
An online catalog that is user-friendly for finding materials	1.40	0.85	1.62	2.06	1.82	390

Language: American English  
 Institution Type: College or University  
 Consortium: ARL  
 User Group: Faculty

## 7.5 General Satisfaction Questions Summary for Faculty

This table displays mean score and standard deviation for each of the general satisfaction questions: Satisfaction with Treatment, Satisfaction with Support, and Satisfaction with Overall Quality of Service, where n is the number of respondents for each particular question. These scores are calculated from responses to the general satisfaction questions on the LibQUAL+® survey, in which respondents rated their levels of general satisfaction on a scale from 1-9.

Satisfaction Question	Mean	SD	n
In general, I am satisfied with the way in which I am treated at the library.	7.71	1.48	2,939
In general, I am satisfied with library support for my learning, research, and/or teaching needs.	7.21	1.76	2,939
How would you rate the overall quality of the service provided by the library?	7.44	1.45	2,939

## 7.6 Information Literacy Outcomes Questions Summary for Faculty

This table displays the mean score and standard deviation for each of the information literacy outcomes questions, where n is the number of respondents for each particular question. These scores are calculated from responses to the information literacy outcomes questions on the LibQUAL+® survey, in which respondents rated their levels of general satisfaction on a scale from 1-9 with 1 being "strongly disagree" and 9 representing "strongly agree".

Information Literacy Outcomes Questions	Mean	SD	n
The library helps me stay abreast of developments in my field(s) of interest.	6.57	2.04	2,939
The library aids my advancement in my academic discipline or work.	7.22	1.78	2,938
The library enables me to be more efficient in my academic pursuits or work.	7.34	1.71	2,939
The library helps me distinguish between trustworthy and untrustworthy information.	5.68	2.20	2,934
The library provides me with the information skills I need in my work or study.	6.25	2.04	2,937

Language: American English

Institution Type: College or University

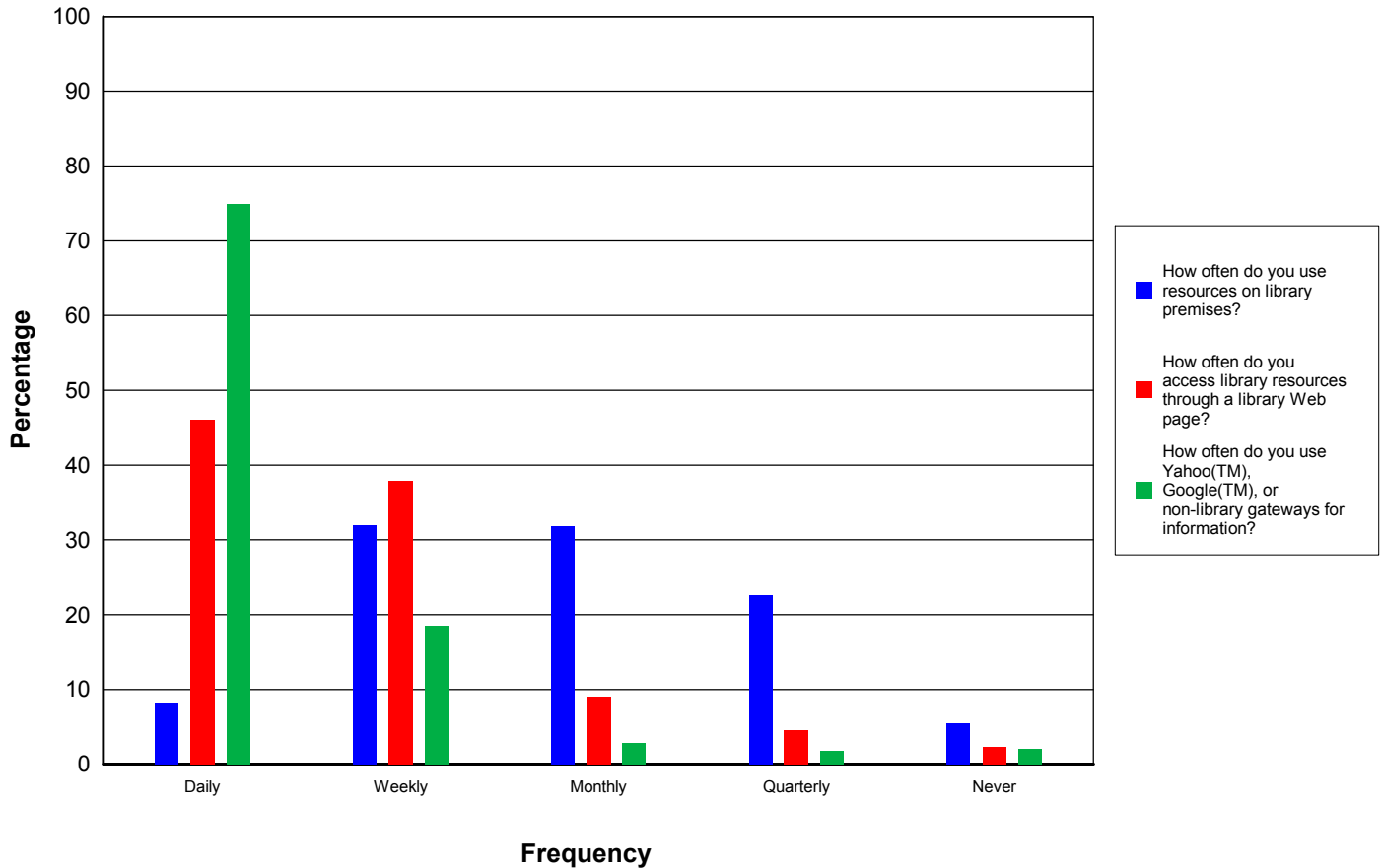
Consortium: ARL

User Group: Faculty



### 7.7 Library Use Summary for Faculty

This chart shows a graphic representation of library use (both on the premises and electronically), as well as use of non-library information gateways such as Yahoo™ and Google™. Bars represent the frequency with which respondents report using these resources: Daily, Weekly, Monthly, Quarterly, or Never. The table below the chart displays the number and percentage of respondents who selected each option.



	Daily	Weekly	Monthly	Quarterly	Never	n / %
How often do you use resources on library premises?	240 8.17%	939 31.95%	935 31.81%	664 22.59%	161 5.48%	<b>2,939</b> <b>100.00%</b>
How often do you access library resources through a library Web page?	1,355 46.10%	1,114 37.90%	265 9.02%	135 4.59%	70 2.38%	<b>2,939</b> <b>100.00%</b>
How often do you use Yahoo(TM), Google(TM), or non-library gateways for information?	2,202 74.95%	543 18.48%	82 2.79%	52 1.77%	59 2.01%	<b>2,938</b> <b>100.00%</b>

Language: American English  
 Institution Type: College or University  
 Consortium: ARL  
 User Group: Faculty

## 8 College or University Libraries Library Staff Summary for ARL

### 8.1 Demographic Summary for Library Staff

#### 8.1.1 Respondent Profile for Library Staff by Age:

This table shows a breakdown of survey respondents by age; both the number of respondents (n) and the percentage of the total number of respondents represented by each age group are displayed.

Age:	Respondents n	Respondents %
18 - 22	9	2.47%
23 - 30	42	11.51%
31 - 45	105	28.77%
46 - 65	204	55.89%
Over 65	5	1.37%
<b>Total:</b>	<b>365</b>	<b>100.00%</b>

#### 8.1.2 Population and Respondent Profiles for Library Staff by Sex:

The table below shows a breakdown of survey respondents by sex, based on user responses to the demographic questions and the demographic data provided by institutions in the online Representativeness section\*. The number and percentage for each sex are given for the general population and for survey respondents.

\*Note: Participating institutions were not required to complete the Representativeness section. When population data is missing or incomplete, it is because this data was not provided.

Sex:	Population N	Population %	Respondents n	Respondents %
Male	321,440	51.94%	116	31.78%
Female	297,422	48.06%	249	68.22%
<b>Total:</b>	<b>618,862</b>	<b>100.00%</b>	<b>365</b>	<b>100.00%</b>

Language: American English

Institution Type: College or University

Consortium: ARL

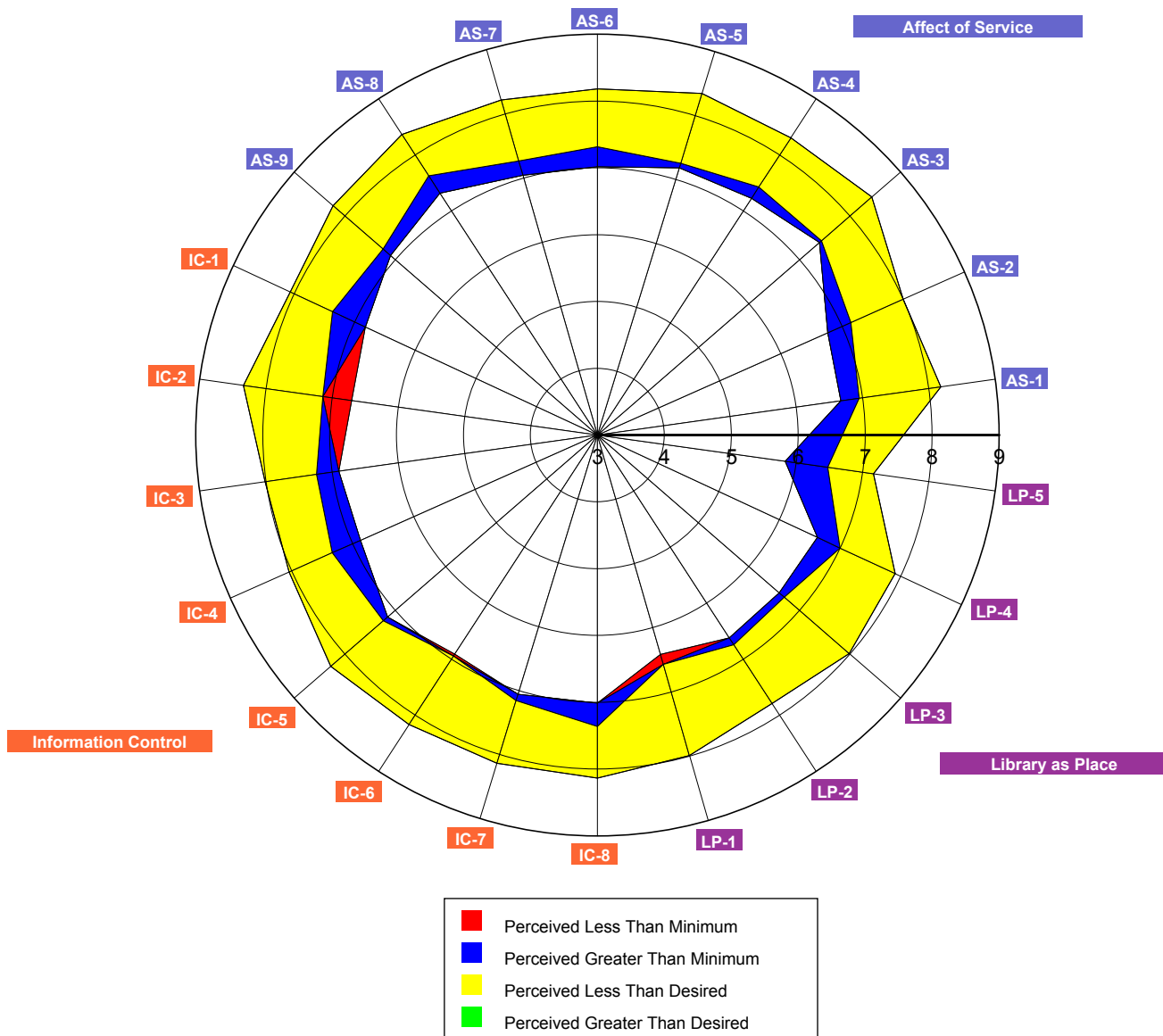
User Group: Library Staff

## 8.2 Core Questions Summary for Library Staff

This radar chart shows aggregate results for the core survey questions. Each axis represents one question. A code to identify each question is displayed at the outer point of each axis. While questions for each dimension of library service quality are scattered randomly throughout the survey, on this chart they are grouped into sections: Affect of Service, Library as Place, and Information Control.

On each axis, respondents' minimum, desired, and perceived levels of service quality are plotted, and the resulting "gaps" between the three levels (representing service adequacy and service superiority) are shaded in blue, yellow, green, and red.

The two following tables show mean scores and standard deviations for each question, where n is the number of respondents for each particular question. (For a more detailed explanation of the headings, see the Introduction to this notebook.)



Language: American English  
 Institution Type: College or University  
 Consortium: ARL  
 User Group: Library Staff

ID	Question Text	Minimum Mean	Desired Mean	Perceived Mean	Adequacy Mean	Superiority Mean	n
<b>Affect of Service</b>							
AS-1	Employees who instill confidence in users	6.67	8.18	6.95	0.28	-1.23	354
AS-2	Giving users individual attention	6.77	8.00	7.15	0.38	-0.86	354
AS-3	Employees who are consistently courteous	7.40	8.43	7.44	0.04	-1.00	365
AS-4	Readiness to respond to users' questions	7.23	8.31	7.43	0.20	-0.88	353
AS-5	Employees who have the knowledge to answer user questions	7.18	8.35	7.26	0.07	-1.09	355
AS-6	Employees who deal with users in a caring fashion	7.02	8.18	7.32	0.30	-0.86	360
AS-7	Employees who understand the needs of their users	7.04	8.22	7.27	0.22	-0.95	358
AS-8	Willingness to help users	7.32	8.36	7.63	0.31	-0.74	358
AS-9	Dependability in handling users' service problems	7.10	8.23	7.24	0.15	-0.99	336
<b>Information Control</b>							
IC-1	Making electronic resources accessible from my home or office	6.82	8.06	7.37	0.54	-0.70	351
IC-2	A library Web site enabling me to locate information on my own	7.14	8.34	6.71	-0.44	-1.63	363
IC-3	The printed library materials I need for my work	6.90	8.01	7.24	0.34	-0.77	342
IC-4	The electronic information resources I need	6.88	8.04	7.34	0.46	-0.71	349
IC-5	Modern equipment that lets me easily access needed information	7.16	8.28	7.24	0.08	-1.04	360
IC-6	Easy-to-use access tools that allow me to find things on my own	6.94	8.17	6.91	-0.03	-1.26	359
IC-7	Making information easily accessible for independent use	7.06	8.14	7.16	0.10	-0.98	359
IC-8	Print and/or electronic journal collections I require for my work	7.02	8.13	7.36	0.35	-0.77	329
<b>Library as Place</b>							
LP-1	Library space that inspires study and learning	6.57	7.99	6.42	-0.15	-1.58	351
LP-2	Quiet space for individual activities	6.62	7.79	6.74	0.12	-1.05	346
LP-3	A comfortable and inviting location	6.60	7.99	6.70	0.10	-1.29	357
LP-4	A getaway for study, learning, or research	6.63	7.91	7.00	0.37	-0.91	339
LP-5	Community space for group learning and group study	5.83	7.16	6.48	0.65	-0.69	299
<b>Overall:</b>		6.92	8.11	7.12	0.20	-0.99	366

Language: American English

Institution Type: College or University

Consortium: ARL

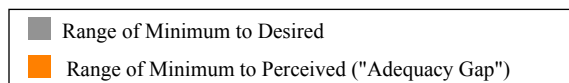
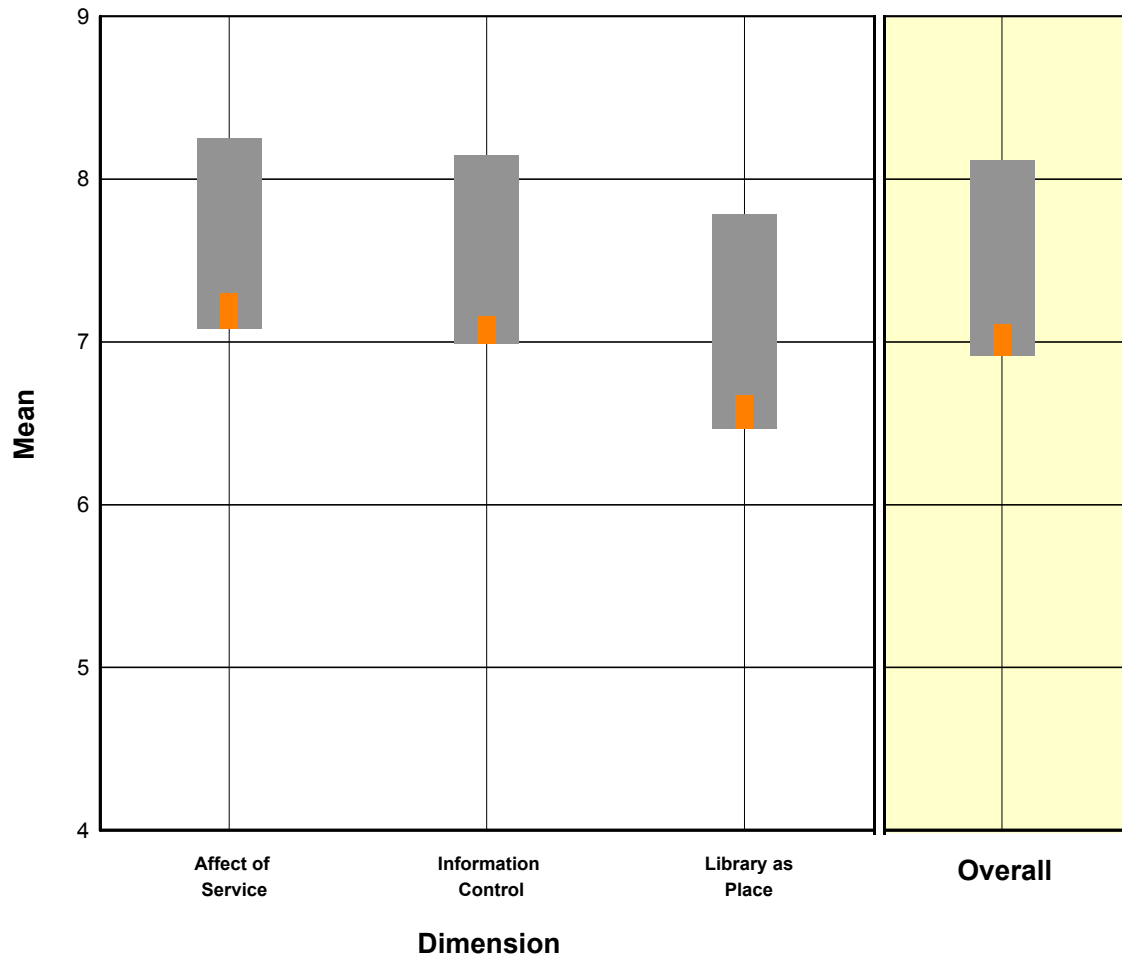
User Group: Library Staff

ID	Question Text	Minimum SD	Desired SD	Perceived SD	Adequacy SD	Superiority SD	n
<b>Affect of Service</b>							
AS-1	Employees who instill confidence in users	1.60	1.10	1.40	1.75	1.51	354
AS-2	Giving users individual attention	1.69	1.20	1.52	1.86	1.54	354
AS-3	Employees who are consistently courteous	1.54	0.98	1.42	1.75	1.51	365
AS-4	Readiness to respond to users' questions	1.39	0.95	1.43	1.66	1.50	353
AS-5	Employees who have the knowledge to answer user questions	1.40	0.93	1.45	1.76	1.56	355
AS-6	Employees who deal with users in a caring fashion	1.59	1.14	1.46	1.78	1.54	360
AS-7	Employees who understand the needs of their users	1.49	1.04	1.41	1.86	1.54	358
AS-8	Willingness to help users	1.45	0.99	1.35	1.68	1.42	358
AS-9	Dependability in handling users' service problems	1.53	1.06	1.44	1.75	1.61	336
<b>Information Control</b>							
IC-1	Making electronic resources accessible from my home or office	1.77	1.47	1.39	1.84	1.69	351
IC-2	A library Web site enabling me to locate information on my own	1.46	1.08	1.72	2.05	1.92	363
IC-3	The printed library materials I need for my work	1.55	1.19	1.37	1.80	1.53	342
IC-4	The electronic information resources I need	1.49	1.25	1.23	1.60	1.51	349
IC-5	Modern equipment that lets me easily access needed information	1.39	0.97	1.50	1.75	1.57	360
IC-6	Easy-to-use access tools that allow me to find things on my own	1.49	1.12	1.49	1.90	1.69	359
IC-7	Making information easily accessible for independent use	1.40	1.14	1.40	1.71	1.62	359
IC-8	Print and/or electronic journal collections I require for my work	1.47	1.23	1.40	1.63	1.54	329
<b>Library as Place</b>							
LP-1	Library space that inspires study and learning	1.70	1.26	1.81	2.23	2.08	351
LP-2	Quiet space for individual activities	1.66	1.37	1.76	2.11	2.06	346
LP-3	A comfortable and inviting location	1.67	1.24	1.78	2.23	2.02	357
LP-4	A getaway for study, learning, or research	1.70	1.33	1.58	1.95	1.75	339
LP-5	Community space for group learning and group study	1.96	1.91	1.83	2.35	2.38	299
<b>Overall:</b>		1.20	0.80	1.08	1.33	1.14	366

Language: American English  
Institution Type: College or University  
Consortium: ARL  
User Group: Library Staff

### 8.3 Core Question Dimensions Summary for Library Staff

On the chart below, scores for each dimension of library service quality have been plotted graphically. The exterior bars represent the range of minimum to desired mean scores for each dimension. The interior bars represent the range of minimum to perceived mean scores (the service adequacy gap) for each dimension of library service quality.



Language: American English  
 Institution Type: College or University  
 Consortium: ARL  
 User Group: Library Staff

The following table displays mean scores for each dimension of library service quality measured by the LibQUAL+® survey, where n is the number of respondents for each particular dimension. (For a more detailed explanation of the headings, see the Introduction to this notebook.) A complete listing of the survey questions and their dimensions can be found in Appendix A.

Dimension	Minimum Mean	Desired Mean	Perceived Mean	Adequacy Mean	Superiority Mean	n
Affect of Service	7.08	8.25	7.30	0.22	-0.95	366
Information Control	6.99	8.15	7.16	0.17	-0.99	366
Library as Place	6.47	7.79	6.67	0.20	-1.12	364
<b>Overall:</b>	6.92	8.11	7.12	0.20	-0.99	366

The following table displays standard deviation for each dimension of library service quality measured by the LibQUAL+® survey, where n is the number of respondents for each particular dimension. (For a more detailed explanation of the headings, see the Introduction to this notebook.) A complete listing of the survey questions and their dimensions can be found in Appendix A.

Dimension	Minimum SD	Desired SD	Perceived SD	Adequacy SD	Superiority SD	n
Affect of Service	1.54	1.05	1.44	1.76	1.53	366
Information Control	1.51	1.19	1.46	1.81	1.67	366
Library as Place	1.76	1.46	1.76	2.19	2.08	364
<b>Overall:</b>	1.20	0.80	1.08	1.33	1.14	366

Language: American English  
 Institution Type: College or University  
 Consortium: ARL  
 User Group: Library Staff

## 8.4 Local Questions Summary for Library Staff

This table shows mean scores for each of the local questions added by the individual library or consortium, where n is the number of respondents for each particular question. (For a more detailed explanation of the headings, see the Introduction to this notebook.)

Question Text	Minimum Mean	Desired Mean	Perceived Mean	Adequacy Mean	Superiority Mean	n
Convenience of borrowing books from other colleges	5.50	7.75	7.50	2.00	-0.25	4
Availability of online help when using my library's electronic resources	6.20	7.80	6.57	0.37	-1.23	35
An environment that facilitates group study and problem solving	5.79	7.02	6.37	0.58	-0.65	43
Ease of use of electronic resources	6.56	8.22	6.56	0.00	-1.67	9
Providing help when and where I need it	6.43	7.73	6.84	0.41	-0.89	37
Online course support (readings, links, references)	6.52	7.73	7.30	0.78	-0.43	81
Electronic resources matching my information needs	7.00	9.00	7.00	0.00	-2.00	1
Library staff teaching me how to find information	7.03	8.18	7.24	0.21	-0.94	34
Library keeping me informed about all of its services	4.50	6.00	9.00	4.50	3.00	2
The multimedia (CD / DVD / video / audio) collections I need	5.90	7.40	6.78	0.89	-0.62	87
Access to photocopying and printing facilities	6.53	7.78	6.64	0.12	-1.14	59
Availability of subject specialist assistance	6.72	7.94	7.02	0.29	-0.92	126
Helpfulness in dealing with users' IT problems	6.76	8.18	6.35	-0.40	-1.83	119
Library staff teaching me how to effectively use the electronically available databases, journals, and books	7.67	8.33	8.67	1.00	0.33	3
Making me aware of library resources and services	6.69	7.86	7.07	0.38	-0.79	188
Teaching me how to locate, evaluate, and use information	6.92	8.33	6.75	-0.17	-1.58	12
Efficient interlibrary loan / document delivery	6.82	7.93	8.00	1.18	0.07	56
Access to rare and historical materials, particularly those of LDS origin.	6.11	7.44	7.44	1.33	0.00	9
Convenient service hours	7.06	7.95	7.75	0.69	-0.20	143
Ability to navigate library Web pages easily	7.07	8.33	6.51	-0.55	-1.82	152
A center for intellectual stimulation	6.19	7.56	6.22	0.03	-1.34	32
Access to archives, special collections	5.66	7.21	6.34	0.69	-0.86	29
Browsing library materials in the stacks	7.00	8.00	8.00	1.00	0.00	1
Convenient business hours	5.00	8.00	7.00	2.00	-1.00	1
Employees who appear to enjoy what they do	7.50	8.50	4.00	-3.50	-4.50	2
Full-text delivered electronically to individual computer	8.00	9.00	7.00	-1.00	-2.00	2
Timely document delivery / interlibrary loan	7.38	8.34	7.81	0.44	-0.53	32
Space for students to study and work in groups	5.80	6.84	6.80	1.00	-0.05	44
Adequate hours of service	7.00	8.05	7.74	0.74	-0.31	39

Language: American English

Institution Type: College or University

Consortium: ARL

User Group: Library Staff



Librarians working with teams or individuals to fulfill specialized knowledge requirements	6.52	8.04	6.81	0.30	-1.22	27
Library staff providing help that assists in finding information needed now while improving my research skills	5.67	8.00	6.67	1.00	-1.33	6
Ease and timeliness in getting materials from other libraries	6.78	8.22	7.62	0.84	-0.61	89
An online catalog that is user-friendly for finding materials	7.00	9.00	7.00	0.00	-2.00	1

Language: American English  
Institution Type: College or University  
Consortium: ARL  
User Group: Library Staff

This table displays the standard deviation for each of the local questions added by the individual library or consortium, where n is the number of respondents for each particular question. (For a more detailed explanation of the headings, see the Introduction to this notebook.)

Question Text	Minimum SD	Desired SD	Perceived SD	Adequacy SD	Superiority SD	n
Convenience of borrowing books from other colleges	1.29	1.26	0.58	1.41	1.50	4
Availability of online help when using my library's electronic resources	2.04	1.68	1.79	1.59	1.99	35
An environment that facilitates group study and problem solving	1.86	1.65	1.54	1.93	1.66	43
Ease of use of electronic resources	1.13	1.09	1.51	2.40	1.80	9
Providing help when and where I need it	1.34	1.28	1.30	1.21	1.13	37
Online course support (readings, links, references)	1.86	1.60	1.49	1.57	1.60	81
Electronic resources matching my information needs						1
Library staff teaching me how to find information	1.75	0.97	1.97	1.92	1.87	34
Library keeping me informed about all of its services	0.71	0.00	0.00	0.71	0.00	2
The multimedia (CD / DVD / video / audio) collections I need	1.74	1.72	1.47	1.86	1.92	87
Access to photocopying and printing facilities	1.77	1.42	1.47	1.79	1.78	59
Availability of subject specialist assistance	1.61	1.34	1.55	1.77	1.69	126
Helpfulness in dealing with users' IT problems	1.44	1.00	1.76	2.04	1.91	119
Library staff teaching me how to effectively use the electronically available databases, journals, and books	1.53	1.15	0.58	1.73	0.58	3
Making me aware of library resources and services	1.60	1.27	1.53	2.00	1.80	188
Teaching me how to locate, evaluate, and use information	1.62	0.89	1.82	2.89	2.27	12
Efficient interlibrary loan / document delivery	1.57	1.29	1.08	1.61	1.37	56
Access to rare and historical materials, particularly those of LDS origin.	1.17	1.59	2.55	2.40	1.73	9
Convenient service hours	1.49	1.13	1.22	1.58	1.43	143
Ability to navigate library Web pages easily	1.43	0.98	1.96	2.34	2.17	152
A center for intellectual stimulation	1.20	1.16	1.31	1.60	1.56	32
Access to archives, special collections	2.18	2.13	1.97	1.73	2.59	29
Browsing library materials in the stacks						1
Convenient business hours						1
Employees who appear to enjoy what they do	0.71	0.71	2.83	3.54	2.12	2
Full-text delivered electronically to individual computer	1.41	0.00	1.41	0.00	1.41	2
Timely document delivery / interlibrary loan	1.48	1.00	1.31	1.79	1.16	32
Space for students to study and work in groups	1.98	2.16	1.46	2.24	2.26	44
Adequate hours of service	1.85	1.23	1.48	1.96	1.47	39

Language: American English

Institution Type: College or University

Consortium: ARL

User Group: Library Staff

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Librarians working with teams or individuals to fulfill specialized knowledge requirements	1.37	1.02	1.27	1.59	1.45	27
Library staff providing help that assists in finding information needed now while improving my research skills	2.07	1.26	2.42	3.16	2.88	6
Ease and timeliness in getting materials from other libraries	1.56	0.91	1.29	1.64	1.28	89
An online catalog that is user-friendly for finding materials						1

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## 8.5 General Satisfaction Questions Summary for Library Staff

This table displays mean score and standard deviation for each of the general satisfaction questions: Satisfaction with Treatment, Satisfaction with Support, and Satisfaction with Overall Quality of Service, where n is the number of respondents for each particular question. These scores are calculated from responses to the general satisfaction questions on the LibQUAL+® survey, in which respondents rated their levels of general satisfaction on a scale from 1-9.

Satisfaction Question	Mean	SD	n
In general, I am satisfied with the way in which I am treated at the library.	7.44	1.58	365
In general, I am satisfied with library support for my learning, research, and/or teaching needs.	7.30	1.60	365
How would you rate the overall quality of the service provided by the library?	7.44	1.31	365

## 8.6 Information Literacy Outcomes Questions Summary for Library Staff

This table displays the mean score and standard deviation for each of the information literacy outcomes questions, where n is the number of respondents for each particular question. These scores are calculated from responses to the information literacy outcomes questions on the LibQUAL+® survey, in which respondents rated their levels of general satisfaction on a scale from 1-9 with 1 being "strongly disagree" and 9 representing "strongly agree".

Information Literacy Outcomes Questions	Mean	SD	n
The library helps me stay abreast of developments in my field(s) of interest.	6.71	1.69	365
The library aids my advancement in my academic discipline or work.	7.04	1.57	364
The library enables me to be more efficient in my academic pursuits or work.	7.12	1.51	364
The library helps me distinguish between trustworthy and untrustworthy information.	6.62	1.83	365
The library provides me with the information skills I need in my work or study.	6.88	1.61	365

Language: American English

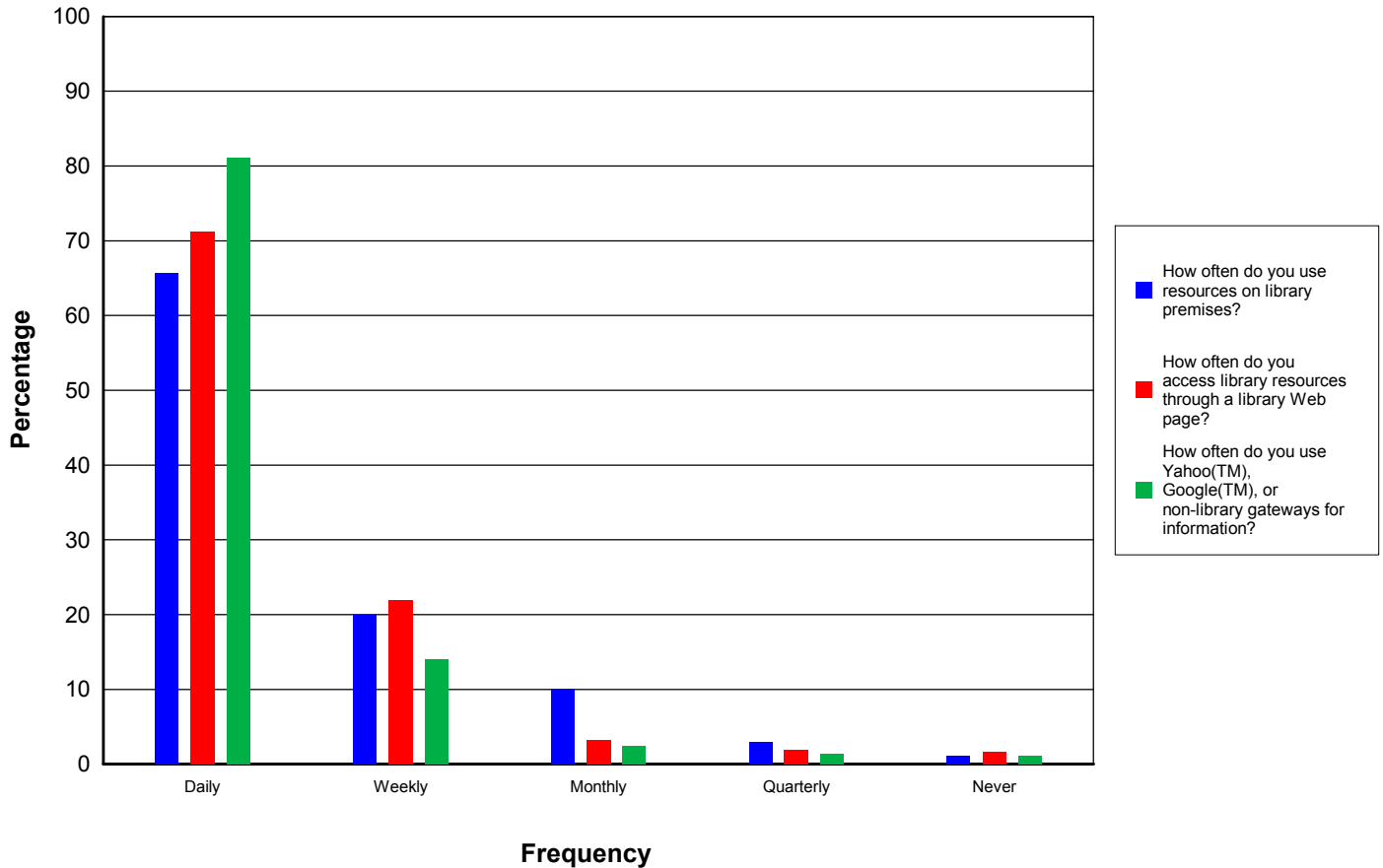
Institution Type: College or University

Consortium: ARL

User Group: Library Staff

### 8.7 Library Use Summary for Library Staff

This chart shows a graphic representation of library use (both on the premises and electronically), as well as use of non-library information gateways such as Yahoo™ and Google™. Bars represent the frequency with which respondents report using these resources: Daily, Weekly, Monthly, Quarterly, or Never. The table below the chart displays the number and percentage of respondents who selected each option.



	Daily	Weekly	Monthly	Quarterly	Never	n / %
How often do you use resources on library premises?	240 65.75%	73 20.00%	37 10.14%	11 3.01%	4 1.10%	365 100.00%
How often do you access library resources through a library Web page?	260 71.23%	80 21.92%	12 3.29%	7 1.92%	6 1.64%	365 100.00%
How often do you use Yahoo(TM), Google(TM), or non-library gateways for information?	296 81.10%	51 13.97%	9 2.47%	5 1.37%	4 1.10%	365 100.00%

Language: American English  
 Institution Type: College or University  
 Consortium: ARL  
 User Group: Library Staff

## 9 College or University Libraries Staff Summary for ARL

### 9.1 Demographic Summary for Staff

#### 9.1.1 Respondent Profile for Staff by Age:

This table shows a breakdown of survey respondents by age; both the number of respondents (n) and the percentage of the total number of respondents represented by each age group are displayed.

Age:	Respondents n	Respondents %
18 - 22	13	1.28%
23 - 30	206	20.26%
31 - 45	375	36.87%
46 - 65	412	40.51%
Over 65	11	1.08%
<b>Total:</b>	<b>1,017</b>	<b>100.00%</b>

#### 9.1.2 Population and Respondent Profiles for Staff by Sex:

The table below shows a breakdown of survey respondents by sex, based on user responses to the demographic questions and the demographic data provided by institutions in the online Representativeness section\*. The number and percentage for each sex are given for the general population and for survey respondents.

\*Note: Participating institutions were not required to complete the Representativeness section. When population data is missing or incomplete, it is because this data was not provided.

Sex:	Population N	Population %	Respondents n	Respondents %
Male	321,440	51.94%	408	40.12%
Female	297,422	48.06%	609	59.88%
<b>Total:</b>	<b>618,862</b>	<b>100.00%</b>	<b>1,017</b>	<b>100.00%</b>

Language: American English

Institution Type: College or University

Consortium: ARL

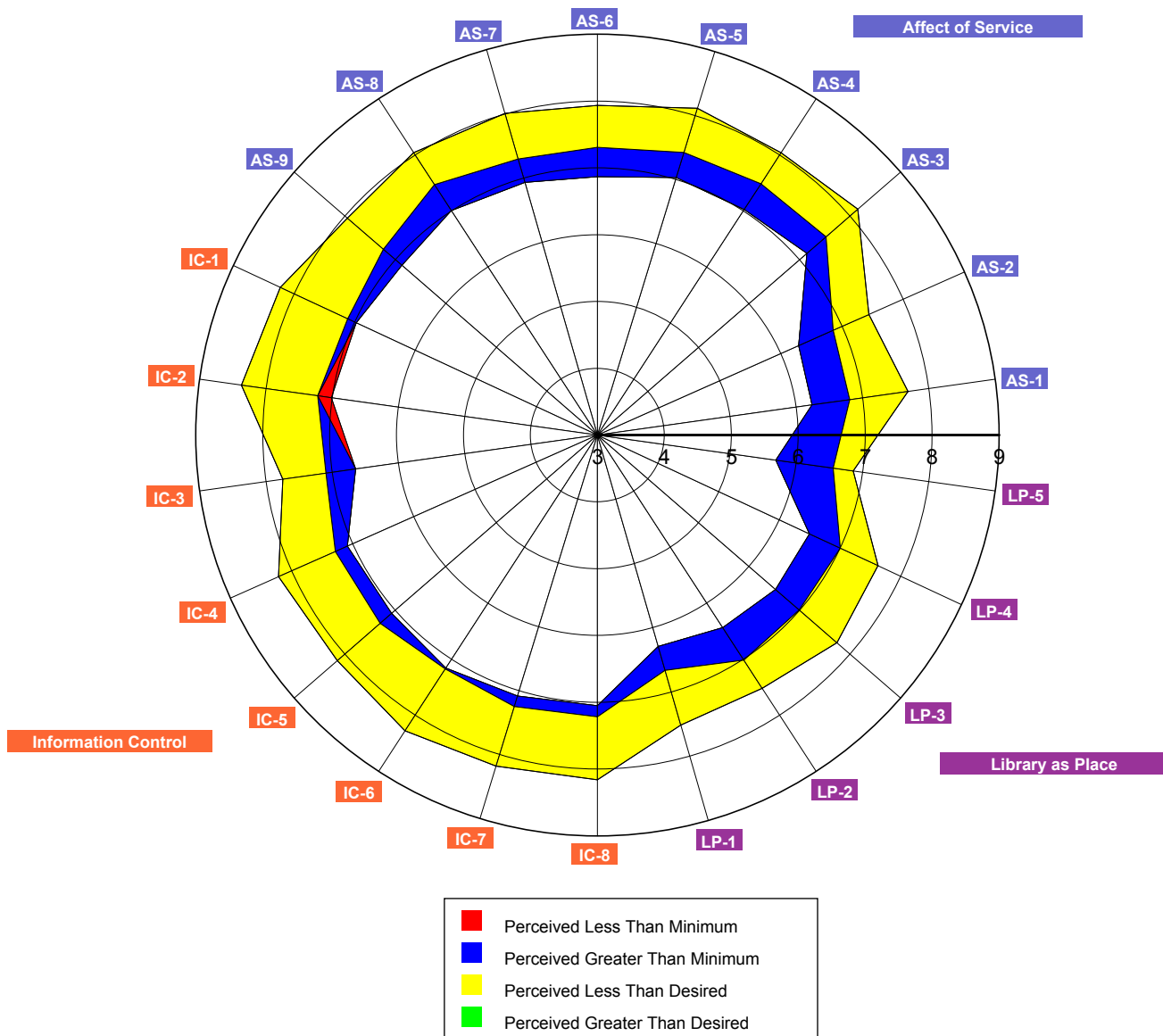
User Group: Staff

## 9.2 Core Questions Summary for Staff

This radar chart shows aggregate results for the core survey questions. Each axis represents one question. A code to identify each question is displayed at the outer point of each axis. While questions for each dimension of library service quality are scattered randomly throughout the survey, on this chart they are grouped into sections: Affect of Service, Library as Place, and Information Control.

On each axis, respondents' minimum, desired, and perceived levels of service quality are plotted, and the resulting "gaps" between the three levels (representing service adequacy and service superiority) are shaded in blue, yellow, green, and red.

The two following tables show mean scores and standard deviations for each question, where n is the number of respondents for each particular question. (For a more detailed explanation of the headings, see the Introduction to this notebook.)



Language: American English  
 Institution Type: College or University  
 Consortium: ARL  
 User Group: Staff

ID	Question Text	Minimum Mean	Desired Mean	Perceived Mean	Adequacy Mean	Superiority Mean	n
<b>Affect of Service</b>							
AS-1	Employees who instill confidence in users	6.24	7.69	6.81	0.57	-0.88	957
AS-2	Giving users individual attention	6.29	7.44	6.86	0.57	-0.58	952
AS-3	Employees who are consistently courteous	7.15	8.15	7.53	0.38	-0.63	992
AS-4	Readiness to respond to users' questions	7.03	8.04	7.49	0.46	-0.55	967
AS-5	Employees who have the knowledge to answer user questions	7.03	8.11	7.43	0.39	-0.69	973
AS-6	Employees who deal with users in a caring fashion	6.87	7.94	7.31	0.44	-0.63	972
AS-7	Employees who understand the needs of their users	6.94	8.01	7.30	0.37	-0.71	966
AS-8	Willingness to help users	7.01	8.04	7.47	0.46	-0.57	970
AS-9	Dependability in handling users' service problems	6.87	7.95	7.24	0.36	-0.71	873
<b>Information Control</b>							
IC-1	Making electronic resources accessible from my home or office	6.97	8.23	7.12	0.14	-1.11	973
IC-2	A library Web site enabling me to locate information on my own	7.22	8.37	7.01	-0.21	-1.36	996
IC-3	The printed library materials I need for my work	6.65	7.75	7.09	0.45	-0.65	845
IC-4	The electronic information resources I need	7.09	8.21	7.29	0.20	-0.93	978
IC-5	Modern equipment that lets me easily access needed information	7.07	8.15	7.30	0.23	-0.85	955
IC-6	Easy-to-use access tools that allow me to find things on my own	7.16	8.28	7.17	0.01	-1.10	995
IC-7	Making information easily accessible for independent use	7.08	8.18	7.25	0.16	-0.93	977
IC-8	Print and/or electronic journal collections I require for my work	7.05	8.16	7.22	0.17	-0.95	824
<b>Library as Place</b>							
LP-1	Library space that inspires study and learning	6.29	7.52	6.67	0.37	-0.85	888
LP-2	Quiet space for individual activities	6.44	7.52	7.02	0.58	-0.50	829
LP-3	A comfortable and inviting location	6.53	7.74	6.99	0.47	-0.75	936
LP-4	A getaway for study, learning, or research	6.50	7.63	7.00	0.51	-0.62	842
LP-5	Community space for group learning and group study	5.69	6.86	6.56	0.87	-0.30	648
<b>Overall:</b>		6.82	7.94	7.17	0.34	-0.77	1,018

Language: American English

Institution Type: College or University

Consortium: ARL

User Group: Staff

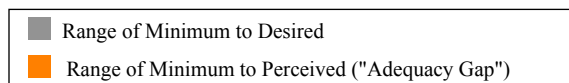
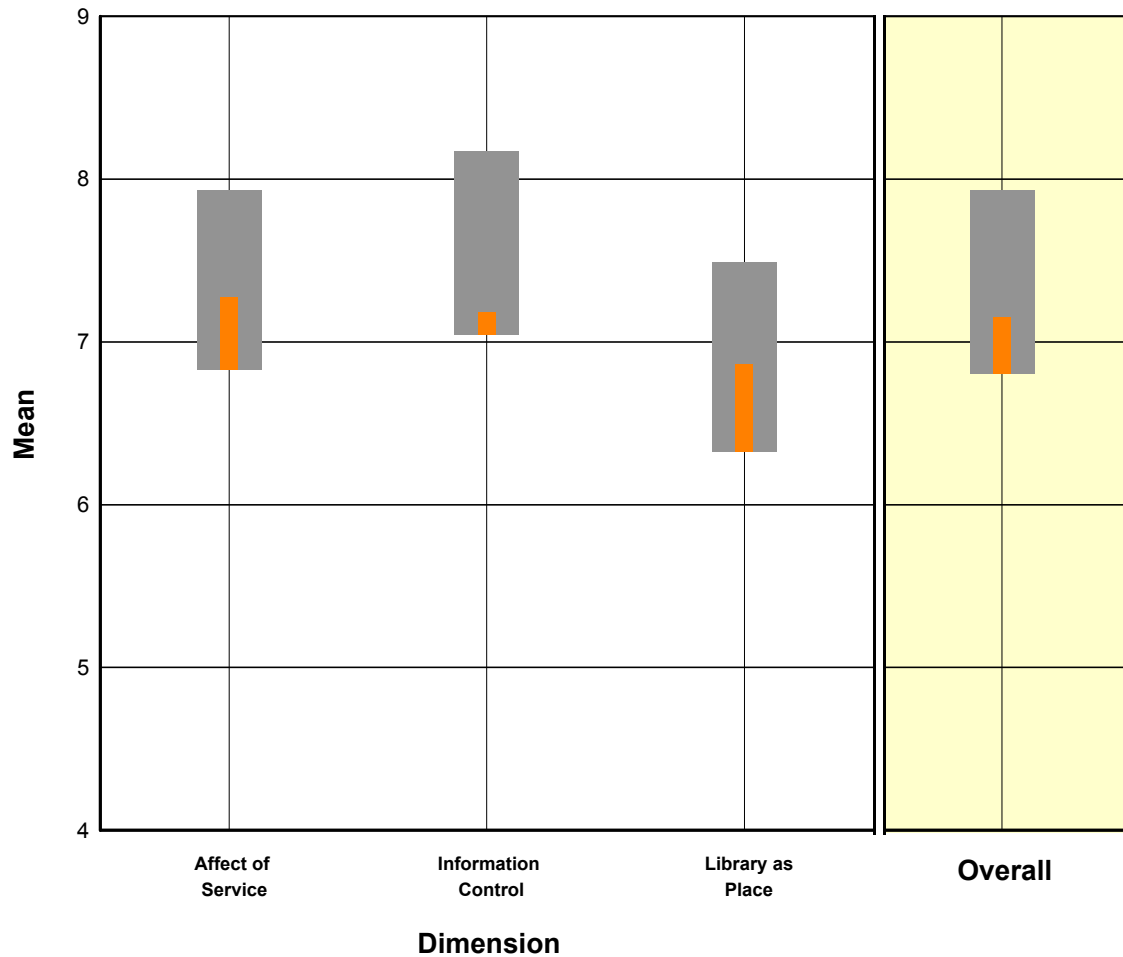


ID	Question Text	Minimum SD	Desired SD	Perceived SD	Adequacy SD	Superiority SD	n
<b>Affect of Service</b>							
AS-1	Employees who instill confidence in users	1.76	1.45	1.61	1.75	1.59	957
AS-2	Giving users individual attention	1.84	1.62	1.69	1.75	1.66	952
AS-3	Employees who are consistently courteous	1.59	1.16	1.45	1.76	1.49	992
AS-4	Readiness to respond to users' questions	1.57	1.21	1.44	1.61	1.42	967
AS-5	Employees who have the knowledge to answer user questions	1.57	1.17	1.40	1.64	1.41	973
AS-6	Employees who deal with users in a caring fashion	1.64	1.31	1.47	1.68	1.45	972
AS-7	Employees who understand the needs of their users	1.61	1.23	1.45	1.68	1.48	966
AS-8	Willingness to help users	1.58	1.20	1.44	1.66	1.40	970
AS-9	Dependability in handling users' service problems	1.60	1.32	1.48	1.68	1.54	873
<b>Information Control</b>							
IC-1	Making electronic resources accessible from my home or office	1.70	1.27	1.68	1.85	1.71	973
IC-2	A library Web site enabling me to locate information on my own	1.55	1.09	1.65	1.89	1.76	996
IC-3	The printed library materials I need for my work	1.74	1.55	1.54	1.76	1.62	845
IC-4	The electronic information resources I need	1.53	1.23	1.39	1.66	1.53	978
IC-5	Modern equipment that lets me easily access needed information	1.59	1.23	1.40	1.61	1.40	955
IC-6	Easy-to-use access tools that allow me to find things on my own	1.46	1.13	1.50	1.77	1.59	995
IC-7	Making information easily accessible for independent use	1.50	1.16	1.46	1.70	1.53	977
IC-8	Print and/or electronic journal collections I require for my work	1.66	1.37	1.51	1.78	1.64	824
<b>Library as Place</b>							
LP-1	Library space that inspires study and learning	1.96	1.78	1.78	2.13	2.07	888
LP-2	Quiet space for individual activities	2.01	1.74	1.67	2.02	1.93	829
LP-3	A comfortable and inviting location	1.78	1.48	1.65	1.97	1.82	936
LP-4	A getaway for study, learning, or research	1.91	1.68	1.62	1.91	1.76	842
LP-5	Community space for group learning and group study	2.19	2.11	1.78	2.09	1.94	648
<b>Overall:</b>		1.30	0.93	1.15	1.30	1.12	1,018

Language: American English  
Institution Type: College or University  
Consortium: ARL  
User Group: Staff

### 9.3 Core Question Dimensions Summary for Staff

On the chart below, scores for each dimension of library service quality have been plotted graphically. The exterior bars represent the range of minimum to desired mean scores for each dimension. The interior bars represent the range of minimum to perceived mean scores (the service adequacy gap) for each dimension of library service quality.



Language: American English  
 Institution Type: College or University  
 Consortium: ARL  
 User Group: Staff

The following table displays mean scores for each dimension of library service quality measured by the LibQUAL+® survey, where n is the number of respondents for each particular dimension. (For a more detailed explanation of the headings, see the Introduction to this notebook.) A complete listing of the survey questions and their dimensions can be found in Appendix A.

Dimension	Minimum Mean	Desired Mean	Perceived Mean	Adequacy Mean	Superiority Mean	n
Affect of Service	6.83	7.93	7.27	0.44	-0.66	1,016
Information Control	7.04	8.17	7.18	0.14	-0.99	1,017
Library as Place	6.32	7.49	6.86	0.54	-0.62	972
<b>Overall:</b>	6.82	7.94	7.17	0.34	-0.77	1,018

The following table displays standard deviation for each dimension of library service quality measured by the LibQUAL+® survey, where n is the number of respondents for each particular dimension. (For a more detailed explanation of the headings, see the Introduction to this notebook.) A complete listing of the survey questions and their dimensions can be found in Appendix A.

Dimension	Minimum SD	Desired SD	Perceived SD	Adequacy SD	Superiority SD	n
Affect of Service	1.67	1.32	1.51	1.69	1.50	1,016
Information Control	1.60	1.26	1.52	1.76	1.61	1,017
Library as Place	1.98	1.77	1.71	2.03	1.91	972
<b>Overall:</b>	1.30	0.93	1.15	1.30	1.12	1,018

Language: American English  
 Institution Type: College or University  
 Consortium: ARL  
 User Group: Staff

## 9.4 Local Questions Summary for Staff

This table shows mean scores for each of the local questions added by the individual library or consortium, where n is the number of respondents for each particular question. (For a more detailed explanation of the headings, see the Introduction to this notebook.)

Question Text	Minimum Mean	Desired Mean	Perceived Mean	Adequacy Mean	Superiority Mean	n
Convenience of borrowing books from other colleges	6.65	8.17	7.22	0.57	-0.96	23
Availability of online help when using my library's electronic resources	6.42	7.56	6.67	0.26	-0.89	393
An environment that facilitates group study and problem solving	5.46	6.62	5.62	0.15	-1.00	13
Ease of use of electronic resources	7.15	8.20	7.32	0.18	-0.88	74
Providing help when and where I need it	6.60	7.90	7.02	0.42	-0.87	125
Providing information that answers my questions	7.25	8.33	7.42	0.17	-0.92	12
Teaching me how to access, evaluate, and use information	4.00	4.00	4.00	0.00	0.00	2
Online course support (readings, links, references)	6.50	7.66	7.06	0.56	-0.60	256
Collections of online full-text articles sufficient to meet my needs	7.25	8.75	6.92	-0.33	-1.83	12
Electronic resources matching my information needs	7.43	8.24	7.05	-0.38	-1.19	21
Library staff teaching me how to find information	6.33	7.64	7.09	0.76	-0.55	164
Library keeping me informed about all of its services	3.75	6.25	5.63	1.88	-0.63	8
The multimedia (CD / DVD / video / audio) collections I need	5.55	6.68	6.41	0.86	-0.27	22
Access to photocopying and printing facilities	6.25	7.44	6.25	0.00	-1.19	16
Availability of subject specialist assistance	6.27	7.46	6.94	0.67	-0.52	365
Helpfulness in dealing with users' IT problems	6.55	7.60	6.86	0.31	-0.74	150
Library staff teaching me how to effectively use the electronically available databases, journals, and books	6.53	7.62	7.28	0.75	-0.34	53
Making me aware of library resources and services	6.54	7.74	7.09	0.55	-0.65	239
Teaching me how to locate, evaluate, and use information	6.44	7.72	6.88	0.44	-0.84	25
Efficient interlibrary loan / document delivery	5.92	8.08	7.62	1.69	-0.46	13
Access to rare and historical materials, particularly those of LDS origin.	7.67	8.00	7.67	0.00	-0.33	3
Convenient service hours	6.93	7.98	7.42	0.48	-0.56	349
Ability to navigate library Web pages easily	6.99	8.33	7.01	0.02	-1.32	137
A center for intellectual stimulation	6.21	7.71	6.91	0.70	-0.81	77
Access to archives, special collections	6.03	7.34	7.09	1.06	-0.25	238
Browsing library materials in the stacks	6.40	7.60	6.80	0.40	-0.80	15
Convenient business hours	6.53	7.95	7.58	1.05	-0.37	19
Employees who appear to enjoy what they do	5.83	7.83	6.33	0.50	-1.50	6

Language: American English

Institution Type: College or University

Consortium: ARL

User Group: Staff

Enabling me to find information myself 24 hours a day	7.42	8.26	7.47	0.05	-0.79	62
Full-text delivered electronically to individual computer	6.00	7.83	7.00	1.00	-0.83	6
Timely document delivery / interlibrary loan	6.83	7.87	7.39	0.56	-0.48	141
Personalization features in the electronic library	5.23	6.36	6.05	0.82	-0.32	44
Space for students to study and work in groups	5.88	7.13	7.25	1.38	0.13	16
Adequate hours of service	6.78	7.88	7.47	0.68	-0.41	217
Librarians working with teams or individuals to fulfill specialized knowledge requirements	6.46	7.51	7.07	0.61	-0.43	67
Library staff providing help that assists in finding information needed now while improving my research skills	6.37	7.70	7.33	0.95	-0.37	43
Ease and timeliness in getting materials from other libraries	6.62	7.50	7.35	0.73	-0.15	26
An online catalog that is user-friendly for finding materials	6.95	8.35	7.05	0.10	-1.30	20

Language: American English  
 Institution Type: College or University  
 Consortium: ARL  
 User Group: Staff

This table displays the standard deviation for each of the local questions added by the individual library or consortium, where n is the number of respondents for each particular question. (For a more detailed explanation of the headings, see the Introduction to this notebook.)

Question Text	Minimum SD	Desired SD	Perceived SD	Adequacy SD	Superiority SD	n
Convenience of borrowing books from other colleges	2.04	1.03	1.13	2.21	1.33	23
Availability of online help when using my library's electronic resources	1.77	1.55	1.64	1.91	1.87	393
An environment that facilitates group study and problem solving	2.60	2.90	2.43	1.68	1.68	13
Ease of use of electronic resources	1.52	1.11	1.30	1.77	1.38	74
Providing help when and where I need it	1.61	1.20	1.56	1.74	1.75	125
Providing information that answers my questions	1.22	0.78	1.31	1.34	1.31	12
Teaching me how to access, evaluate, and use information	4.24	4.24	4.24	0.00	0.00	2
Online course support (readings, links, references)	1.89	1.74	1.56	1.59	1.56	256
Collections of online full-text articles sufficient to meet my needs	0.97	0.62	1.51	1.44	1.75	12
Electronic resources matching my information needs	1.50	1.26	1.75	1.66	1.47	21
Library staff teaching me how to find information	1.91	1.65	1.59	1.86	1.56	164
Library keeping me informed about all of its services	2.05	1.39	2.45	2.17	2.77	8
The multimedia (CD / DVD / video / audio) collections I need	2.18	2.03	1.40	1.96	2.21	22
Access to photocopying and printing facilities	1.57	1.46	1.98	2.13	2.23	16
Availability of subject specialist assistance	1.91	1.55	1.54	1.75	1.57	365
Helpfulness in dealing with users' IT problems	1.81	1.49	1.60	1.77	1.60	150
Library staff teaching me how to effectively use the electronically available databases, journals, and books	1.69	1.61	1.90	1.87	1.65	53
Making me aware of library resources and services	1.72	1.29	1.57	1.79	1.68	239
Teaching me how to locate, evaluate, and use information	1.66	1.46	1.42	1.23	1.37	25
Efficient interlibrary loan / document delivery	2.14	1.26	1.61	2.10	1.66	13
Access to rare and historical materials, particularly those of LDS origin.	1.53	1.00	1.53	0.00	0.58	3
Convenient service hours	1.59	1.36	1.53	1.88	1.66	349
Ability to navigate library Web pages easily	1.62	1.04	1.52	1.77	1.59	137
A center for intellectual stimulation	2.02	1.70	1.61	1.97	1.90	77
Access to archives, special collections	1.98	1.58	1.48	2.04	1.81	238
Browsing library materials in the stacks	2.32	1.80	2.04	1.45	2.37	15
Convenient business hours	1.74	1.31	1.12	1.31	1.16	19
Employees who appear to enjoy what they do	2.32	1.17	2.34	0.84	1.52	6
Enabling me to find information myself 24 hours a day	1.54	1.19	1.36	1.68	1.34	62

Language: American English

Institution Type: College or University

Consortium: ARL

User Group: Staff

Full-text delivered electronically to individual computer	2.53	1.60	2.10	2.10	0.75	6
Timely document delivery / interlibrary loan	1.50	1.45	1.47	1.56	1.42	141
Personalization features in the electronic library	2.09	2.16	1.83	1.73	1.86	44
Space for students to study and work in groups	1.82	1.78	1.29	1.54	1.50	16
Adequate hours of service	1.67	1.47	1.56	1.81	1.66	217
Librarians working with teams or individuals to fulfill specialized knowledge requirements	2.11	1.69	1.46	1.77	1.71	67
Library staff providing help that assists in finding information needed now while improving my research skills	1.53	1.30	1.55	1.83	1.48	43
Ease and timeliness in getting materials from other libraries	1.58	1.48	1.57	1.25	1.29	26
An online catalog that is user-friendly for finding materials	1.73	1.35	1.32	1.37	1.69	20

Language: American English  
 Institution Type: College or University  
 Consortium: ARL  
 User Group: Staff

## 9.5 General Satisfaction Questions Summary for Staff

This table displays mean score and standard deviation for each of the general satisfaction questions: Satisfaction with Treatment, Satisfaction with Support, and Satisfaction with Overall Quality of Service, where n is the number of respondents for each particular question. These scores are calculated from responses to the general satisfaction questions on the LibQUAL+® survey, in which respondents rated their levels of general satisfaction on a scale from 1-9.

Satisfaction Question	Mean	SD	n
In general, I am satisfied with the way in which I am treated at the library.	7.48	1.45	1,017
In general, I am satisfied with library support for my learning, research, and/or teaching needs.	7.14	1.58	1,016
How would you rate the overall quality of the service provided by the library?	7.36	1.30	1,018

## 9.6 Information Literacy Outcomes Questions Summary for Staff

This table displays the mean score and standard deviation for each of the information literacy outcomes questions, where n is the number of respondents for each particular question. These scores are calculated from responses to the information literacy outcomes questions on the LibQUAL+® survey, in which respondents rated their levels of general satisfaction on a scale from 1-9 with 1 being "strongly disagree" and 9 representing "strongly agree".

Information Literacy Outcomes Questions	Mean	SD	n
The library helps me stay abreast of developments in my field(s) of interest.	6.36	1.87	1,017
The library aids my advancement in my academic discipline or work.	6.80	1.78	1,017
The library enables me to be more efficient in my academic pursuits or work.	6.89	1.74	1,017
The library helps me distinguish between trustworthy and untrustworthy information.	6.14	1.87	1,017
The library provides me with the information skills I need in my work or study.	6.45	1.83	1,017

Language: American English

Institution Type: College or University

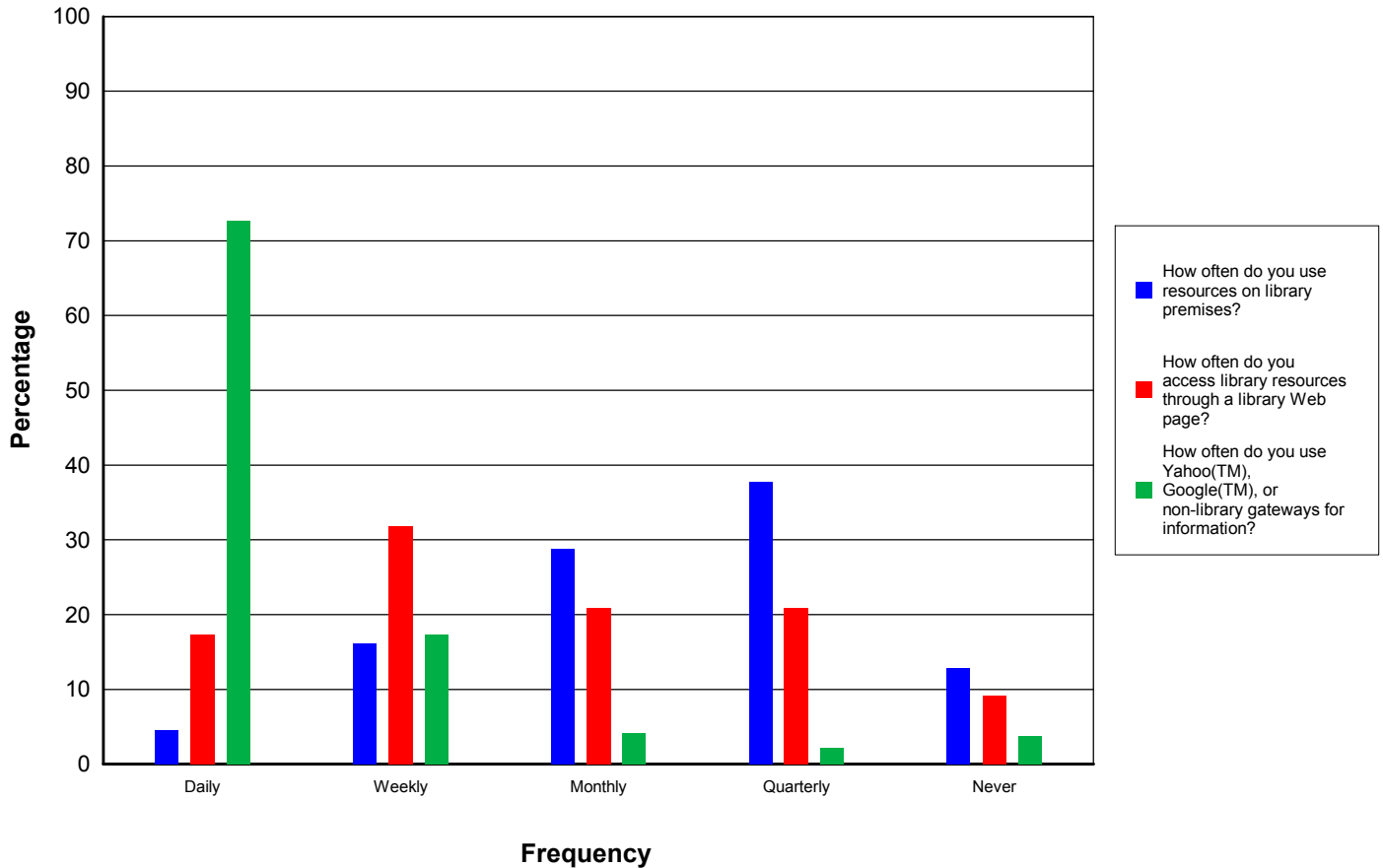
Consortium: ARL

User Group: Staff



### 9.7 Library Use Summary for Staff

This chart shows a graphic representation of library use (both on the premises and electronically), as well as use of non-library information gateways such as Yahoo™ and Google™. Bars represent the frequency with which respondents report using these resources: Daily, Weekly, Monthly, Quarterly, or Never. The table below the chart displays the number and percentage of respondents who selected each option.



	Daily	Weekly	Monthly	Quarterly	Never	n / %
How often do you use resources on library premises?	46 4.52%	164 16.11%	293 28.78%	384 37.72%	131 12.87%	<b>1,018</b> <b>100.00%</b>
How often do you access library resources through a library Web page?	176 17.29%	324 31.83%	212 20.83%	213 20.92%	93 9.14%	<b>1,018</b> <b>100.00%</b>
How often do you use Yahoo(TM), Google(TM), or non-library gateways for information?	740 72.69%	176 17.29%	42 4.13%	22 2.16%	38 3.73%	<b>1,018</b> <b>100.00%</b>

Language: American English  
 Institution Type: College or University  
 Consortium: ARL  
 User Group: Staff

## 10 Appendix A: LibQUAL+® Dimensions

LibQUAL+® measures dimensions of perceived library quality---that is, each survey question is part of a broader category (a dimension), and scores within those categories are analyzed in order to derive more general information about library users' perceptions of service. These dimensions were first based on the original SERVQUAL survey instrument (the framework for the LibQUAL+® survey tool; for more information on the origins of LibQUAL+®, go to <http://www.libqual.org/Publications/>). The LibQUAL+® survey dimensions have evolved with each iteration, becoming more refined and focused for application to the library context. Dimensions for each iteration of the LibQUAL+® survey are outlined below.

### **LibQUAL+® 2000 Dimensions**

The 2000 iteration of the LibQUAL+® survey, which had 41 questions, measured eight separate dimensions:

- Assurance (the knowledge and courtesy of employees, and their ability to convey trust and confidence)
- Empathy (caring, individual attention)
- Library as Place (library as a sanctuary/haven or site for learning and contemplation)
- Reliability (ability to perform the promised service dependably and accurately)
- Responsiveness (willingness to help customers and provide prompt service)
- Tangibles (appearance of physical facilities, equipment, personnel and communications materials)
- Instructions/Custom Items
- Self-Reliance

### **LibQUAL+® 2001 Dimensions**

After careful analysis of the results from the 2000 survey, the dimensions were further refined to re-ground the SERVQUAL items in the library context. Four sub-dimensions resulted for the 2001 iteration:

- Service Affect (nine items, such as “willingness to help users”)
- Library as Place (five items, such as “a haven for quiet and solitude”)
- Personal Control (six items, such as “website enabling me to locate information on my own”), and
- Information Access (five items, such as “comprehensive print collections” and “convenient business hours”)

### **LibQUAL+® 2002 and 2003 Dimensions**

For the 2002 iteration of the LibQUAL+® survey, the dimensions were once again refined based on analysis of the previous year's results. While the four dimensions were retained, their titles were changed slightly to more clearly represent the questions and data. The same four dimensions were also used on the 2003 survey:

- Access to Information
- Affect of Service
- Library as Place
- Personal Control

### **LibQUAL+® 2004 - 2008 Dimensions**

After the 2003 survey was completed, factor and reliability analyses on the resulting data revealed that two of the

dimensions measured by the survey-Access to Information and Personal Control-had collapsed into one. The following three dimensions have been measured since then: Affect of Service, Information Control, and Library as Place. In addition, three core items were eliminated from the 2003 version of the survey, leaving 22 core items on the final survey instrument.

The list below displays the dimensions used to present the results in the 2008 notebooks, along with the questions that relate to each dimension. *(Note: The questions below are those used in the College and University implementation of the survey, American English version.)*

**Affect of Service**

- [AS-1] Employees who instill confidence in users
- [AS-2] Giving users individual attention
- [AS-3] Employees who are consistently courteous
- [AS-4] Readiness to respond to users' questions
- [AS-5] Employees who have the knowledge to answer user questions
- [AS-6] Employees who deal with users in a caring fashion
- [AS-7] Employees who understand the needs of their users
- [AS-8] Willingness to help users
- [AS-9] Dependability in handling users' service problems

**Information Control**

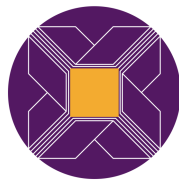
- [IC-1] Making electronic resources accessible from my home or office
- [IC-2] A library Web site enabling me to locate information on my own
- [IC-3] The printed library materials I need for my work
- [IC-4] The electronic information resources I need
- [IC-5] Modern equipment that lets me easily access needed information
- [IC-6] Easy-to-use access tools that allow me to find things on my own
- [IC-7] Making information easily accessible for independent use
- [IC-8] Print and/or electronic journal collections I require for my work

**Library as Place**

- [LP-1] Library space that inspires study and learning
- [LP-2] Quiet space for individual activities
- [LP-3] A comfortable and inviting location
- [LP-4] A getaway for study, learning or research
- [LP-5] Community space for group learning and group study







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**ISBN 1-59407-819-X (PDF)**