



LibQUAL⁺

2014 Survey

European College and University Libraries

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1 Introduction

1.1 Acknowledgements

This notebook contains information from the 2014 administration of the LibQUAL+® protocol. The material on the following pages is drawn from the analysis of responses from the participating institutions collected in 2014.

The LibQUAL+® project requires the skills of a dedicated group. We would like to thank several alumni 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 contributions made by Consuella Askew, MaShana Davis, David Green, Richard Groves, Kaylyn Groves, Amy Hoseth, Kristina Justh, 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, a project known as DigiQUAL that produced valuable insights on the evolution of our work. 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. Through 2013, we have had 2,663 institutional surveys implemented across 1,295 institutions in over 29 countries, 21 language translations, and over 1.8 million respondents. About 42% of the users who respond to the survey 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 an experimental version of the LibQUAL+® Analytics (for more information, see Section 1.6). Between 2007 and 2010 we incorporated additional languages including non-roman languages like Chinese, Greek, Hebrew, and Japanese. In 2012, we added Korean, and in 2013 we tested Arabic with the group of libraries in the Gulf Region.

In 2008, we started experimenting with a new technology platform that incorporates many desired enhancements and tested a shorter version of the LibQUAL+® survey known as LibQUAL+® Lite. In 2010, we launched the new platform in our operational environment after researching extensively the LibQUAL+® Lite behavior [see: Kyriellidou, M. (2009). *Item Sampling in Service Quality Assessment Surveys to Improve Rates and Reduce Respondent Burden: The 'LibQUAL+® Lite' Randomized Control Trial (RCT)* (Doctoral dissertation). Retrieved from <https://www.ideals.illinois.edu/bitstream/handle/2142/14570/Kyriellidou_Martha.pdf?sequence=3>.

In 2010, we introduced a participation fee that rewards systematic periodic participation in LibQUAL+® in a way that the implementation fee gets reduced when a library implements the protocol on an annual or biennial basis. In 2011, we introduced a Membership Subscription fee to support access to the data repository for those years that libraries do not implement a survey and for future enhancement of LibQUAL+® Analytics. In 2013, we introduced the customization feature for the Position/User group categories, and in 2014 we are introducing a version of the survey questionnaire for mobile devices, as well as testing support for locally developed questions.

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+® 2013 Survey Highlights

<https://www.libqual.org/documents/LibQual/publications/2013--_LibQUAL_Highlights.pdf>

LibQUAL+® 2012 Survey Highlights

<https://www.libqual.org/documents/LibQual/publications/2012_LibQUAL_Highlights.pdf>

LibQUAL+® 2011 Survey Highlights

<http://www.libqual.org/documents/LibQual/publications/LibQUALHighlights2011_Full.pdf>

<http://www.libqual.org/documents/LibQual/publications/LibQUALHighlights2011_Full_Supplement.pdf>

LibQUAL+® 2010 Survey Highlights

<http://www.libqual.org/documents/LibQual/publications/LibQUALHighlights2010_Full.pdf>

<http://www.libqual.org/documents/LibQual/publications/LibQUALHighlights2010_Full_Supplement.pdf>

LibQUAL+® 2009 Survey Highlights

<http://www.libqual.org/documents/admin/LibQUALHighlights2009_Full.pdf>

<http://www.libqual.org/documents/admin/LibQUALHighlights2009_Full_Supplement.pdf>

LibQUAL+® 2008 Survey Highlights

<http://www.libqual.org/documents/admin/LibQUALHighlights2008_Full1.pdf>

<http://www.libqual.org/documents/admin/LibQUALHighlights2008_Full_Supplement1.pdf>

LibQUAL+® 2007 Survey Highlights

<http://www.libqual.org/documents/admin/LibQUALHighlights2007_Full1.pdf>

<http://www.libqual.org/documents/admin/2007_Highlights_Supplemental.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>

Summary published reports have also been made available:

<<http://www.arl.org/resources/pubs/libqualpubs/index.shtml>>

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. Furthermore, our websites, access technologies and discovery tools are not quite maximizing the value libraries can deliver. There is a lot of room for improvement in this area!*

The team at ARL and beyond is proud to develop and 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, collaborative, complementary and cohesive environment that can bring forth scalable innovations and break new ground. Innovation, demonstrating value and marketing services effectively are key activities contributing to stronger libraries with better services and improved learning and research outcomes for our users.

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. Furthermore, we recognize that this tool is one of the strategic elements of the evolving assessment infrastructure libraries are building, as can be seen from the Library Assessment Conference gatherings.

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, PhD
Senior Director, ARL Statistics and Service Quality Programs
Association of Research Libraries

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 paired with training that helps libraries assess and improve library services, change organizational culture, and market the library. The survey instrument measures library users' minimum, perceived, and desired service levels of service quality across three dimensions: Affect of Service, Information Control, and Library as Place. 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 comparable assessment information from peer institutions
- Identify best practices in library service
- Enhance library staff members' analytical skills for interpreting, and acting on data

Since 2000, more than 1,295 libraries have participated in LibQUAL+®, including college and university libraries, community college libraries, health sciences libraries, academic law libraries, and public libraries---some through various consortia, others as independent participants. LibQUAL+® has expanded internationally, with participating institutions in Africa, Asia, Australia and Europe. It has been translated into a number of languages, including Arabic, Afrikaans, Chinese (Traditional), Danish, Dutch, Finnish, French, German, Greek, Hebrew, Japanese, Korean, 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 LibQUAL+® 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. Use our online Management Center to set up and track the progress of your survey. You invite your users to take the survey by distributing the URL for your library's Web form via e-mail or posting a link to your survey on the library's Web site. Respondents complete the survey form and their answers are sent to the LibQUAL+® 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 2014 iteration of the LibQUAL+® survey will be available to project participants online in the Data Repository via the LibQUAL+® survey management site:

<<http://www.libqual.org/repository>>

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/about/about_survey/tools

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. If all users rated an item identically, the SD would be zero. Larger SDs indicate more disparate opinions of the users about library service quality.

In this notebook, standard deviations are provided for every mean presented in the tables. In a very real sense, the SD indicates how well a given numerical mean does at representing all the data. If the SD of the scores about a given mean was zero, the mean perfectly represents everyone's scores, and all the scores and the mean are all identical!

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+® 2014

Libraries today confront escalating pressure to demonstrate value and 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; Kyrillidou & Cook, 2008; Kyrillidou, Cook, & Rao, 2008; Thompson, Cook & Heath, 2003; Thompson, Cook & Thompson, 2002; Thompson, Kyrillidou & Cook, 2007a, 2007b, 2008).

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).

LibQUAL+® Lite

In 2010, the LibQUAL+® Lite customization feature was introduced: a shorter version of the survey that takes less time to fill in. The Lite protocol uses item sampling methods to gather data on all 22 LibQUAL+® core items, while only requiring a given single user to respond to a subset of the 22 core questions. Every Lite user responds to one “linking” item from each of the subscales (Affect of Service, Information Control, and Library as Place), and to a randomly-selected subset of five items from the remaining 19 core LibQUAL+® items. However, all 22 core items are completed by at least some users on a given campus. As a consequence, because individual Lite users only complete a subset of the core items, survey response times are roughly cut in half, while the library still receives data on every survey question. Each participating library sets a “Lite-view Percentage” to determine what percentage of individuals will randomly receive the Lite versus the long version of the survey.

The mechanics of item sampling strategy and results from pilot testing are described in Martha Kyrillidou’s dissertation. Findings indicate that LibQUAL+® Lite is the preferred and improved alternative to the long form of 22 core items that has been established since 2003. The difference between the long and the Lite version of the survey is enough to result in higher participation rates ranging from 3.1 to 10.6 percent more for surveys that reduce average response times from 10 to 6 minutes (Kyrillidou, 2009, Thompson, Kyrillidou & Cook, 2009a; Thompson, Kyrillidou & Cook, 2009b).

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, Kyrillidou, 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. Kyrillidou (2008) edited a compilation of articles that complements and provides an updated perspective on these earlier special issues. These publications can be ordered by sending an email to libqual@arl.org. Numerous other articles have been published in the literature and a good number of references can be located on the LibQUAL+® publication page search engine under ‘Related articles.’

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, 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 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 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 presented core 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., an 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. *It was decided that records of the long version of the survey containing more than 11 N/A responses and records of the Lite version containing more than 4 "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 was made. *Records of the long version of the survey containing more than 9 logical inconsistencies and records of the Lite version containing more than 3 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 are available on the LibQUAL+® Web site at:

http://www.libqual.org/resources/norms_tables

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%

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%

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+® Analytics

The LibQUAL+® Analytics is a tool that permits participants to dynamically create institution-specific tables and charts for different subgroups and across years. The current interface grants access to 2004-2014 statistical data and unifies the analysis within an institution's data (formerly called institution explorer) and across time (longitudinal analysis) . It provides a one-stop dynamic shop to interactively analyze results and benchmark with other institutions.

Participants can refine the data by selecting specific years, user groups, and disciplines, view and save the selection

in various tables and charts, and download their datasets for further manipulation in their preferred software. The current version of LibQUAL+® Analytics is only the beginning of our effort to provide more customized analysis. More features are in development based on feedback we receive from our participants. For a subscription to LibQUAL+® Analytics, e-mail libqual@arl.org. Our future plans call for building a full-scale data warehouse with the ability to overlay different data visualization tools on top of it.

Survey Data

In addition to the notebooks, the norms, and the Analytics, LibQUAL+® also makes available (a) raw survey data in SPSS 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 various formats 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>>

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.

Library Assessment Conference

The growing community of practice related to library assessment is convening regularly in North America through the Library Assessment Conference. Gatherings of this community have taken place on a biennial basis since 2006. The proceedings and recent information are available at

<<http://www.libraryassessment.org>>

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

<<http://www.libqual.org/>>

<<http://www.statsqual.org/>>

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

<<http://www.arl.org/focus-areas/statistics-assessment>>

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1.7 Consortium Contact Information for European College and University Libraries

The person below served as the consortium's primary LibQUAL+® liaison during this survey implementation.

Name:

Title:

Organization:

Address:

Phone:

Email:

1.8 Survey Protocol and Language for European College and University Libraries

The data below indicate the number of valid surveys collected by language and long/Lite breakdowns.

		Long	Lite	Total <i>(by Language)</i>
Dutch	<i>Count</i>	0	3,167	3,167
	<i>% of Language</i>	0.00	100.00	100.00
	<i>% of Protocol</i>	0.00	5.75	
	<i>% of Total Cases</i>	0.00	5.42	5.42
English (American)	<i>Count</i>	0	8	8
	<i>% of Language</i>	0.00	100.00	100.00
	<i>% of Protocol</i>	0.00	0.01	
	<i>% of Total Cases</i>	0.00	0.01	0.01
English (British)	<i>Count</i>	2,467	29,342	31,809
	<i>% of Language</i>	7.76	92.24	100.00
	<i>% of Protocol</i>	73.18	53.29	
	<i>% of Total Cases</i>	4.22	50.21	54.43
English (Dutch)	<i>Count</i>	0	594	594
	<i>% of Language</i>	0.00	100.00	100.00
	<i>% of Protocol</i>	0.00	1.08	
	<i>% of Total Cases</i>	0.00	1.02	1.02
English (France)	<i>Count</i>	139	179	318
	<i>% of Language</i>	43.71	56.29	100.00
	<i>% of Protocol</i>	4.12	0.33	
	<i>% of Total Cases</i>	0.24	0.31	0.54
English (Swedish)	<i>Count</i>	0	601	601
	<i>% of Language</i>	0.00	100.00	100.00
	<i>% of Protocol</i>	0.00	1.09	
	<i>% of Total Cases</i>	0.00	1.03	1.03
French (France)	<i>Count</i>	765	18,288	19,053
	<i>% of Language</i>	4.02	95.98	100.00
	<i>% of Protocol</i>	22.69	33.21	
	<i>% of Total Cases</i>	1.31	31.30	32.60
Swedish	<i>Count</i>	0	2,886	2,886
	<i>% of Language</i>	0.00	100.00	100.00
	<i>% of Protocol</i>	0.00	5.24	
	<i>% of Total Cases</i>	0.00	4.94	4.94
Total <i>(by Survey Protocol)</i>	<i>Count</i>	3,371	55,065	58,436
	<i>% of Language</i>			
	<i>% of Protocol</i>	100.00	100.00	
	<i>% of Total Cases</i>	5.77	94.23	100.00

2 Respondents by Institution for European College and University Libraries

Below is a listing of all the consortium institutions that participated in the 2014 LibQUAL+® survey. Where applicable, they have been separated out by library type (e.g. Academic Health Sciences, College or University, Community College). The number of respondents from each institution and the percentage of the total number of consortium respondents that they represent are provided.

Institution	Respondents n	Respondents %
College or University		
1) Anglia Ruskin University	2,078	3.56%
2) Bibliothèque de l'université Paris-Dauphine	1,088	1.86%
3) Bibliothèque universitaire droit-lettres	1,770	3.03%
4) Buckinghamshire New University	893	1.53%
5) Cranfield University	735	1.26%
6) London School of Economics	1,656	2.83%
7) Lund University	3,487	5.97%
8) National University of Ireland Maynooth	1,286	2.20%
9) National University of Ireland, Galway	2,552	4.37%
10) Queen Mary, University of London	1,642	2.81%
11) Robert Gordon University	898	1.54%
12) SCD Université Le Havre	1,032	1.77%
13) Sciences Po	1,487	2.54%
14) Service Commun de la Documentation Université Orléans	1,890	3.23%
15) Universitaire Bibliotheken Leiden	3,761	6.44%
16) Université d'Angers	6,002	10.27%
17) Université de Pau et des Pays de l'Adour	1,656	2.83%
18) Université Joseph Fourier - Grenoble INP	2,522	4.32%
19) Université Paul Sabatier	1,932	3.31%
20) University College Cork Ireland	1,908	3.27%
21) University College Dublin	2,182	3.73%
22) University of Glasgow Library	2,352	4.02%
23) University of Leicester	1,207	2.07%
24) University of Limerick	2,343	4.01%
25) University of Liverpool	1,871	3.20%
26) University of St. Andrews	1,175	2.01%
27) University of the Arts London	1,861	3.18%
28) University of the West of England, Bristol	2,071	3.54%
29) University of Westminster	830	1.42%
30) University of York	2,269	3.88%
Sub Total	58,436	100.00%
Grand Total:	58,436	100.00%

3 College or University Summary for European College and University Libraries

3.1 Demographic Summary for College or University

3.1.1 Respondents by User Group

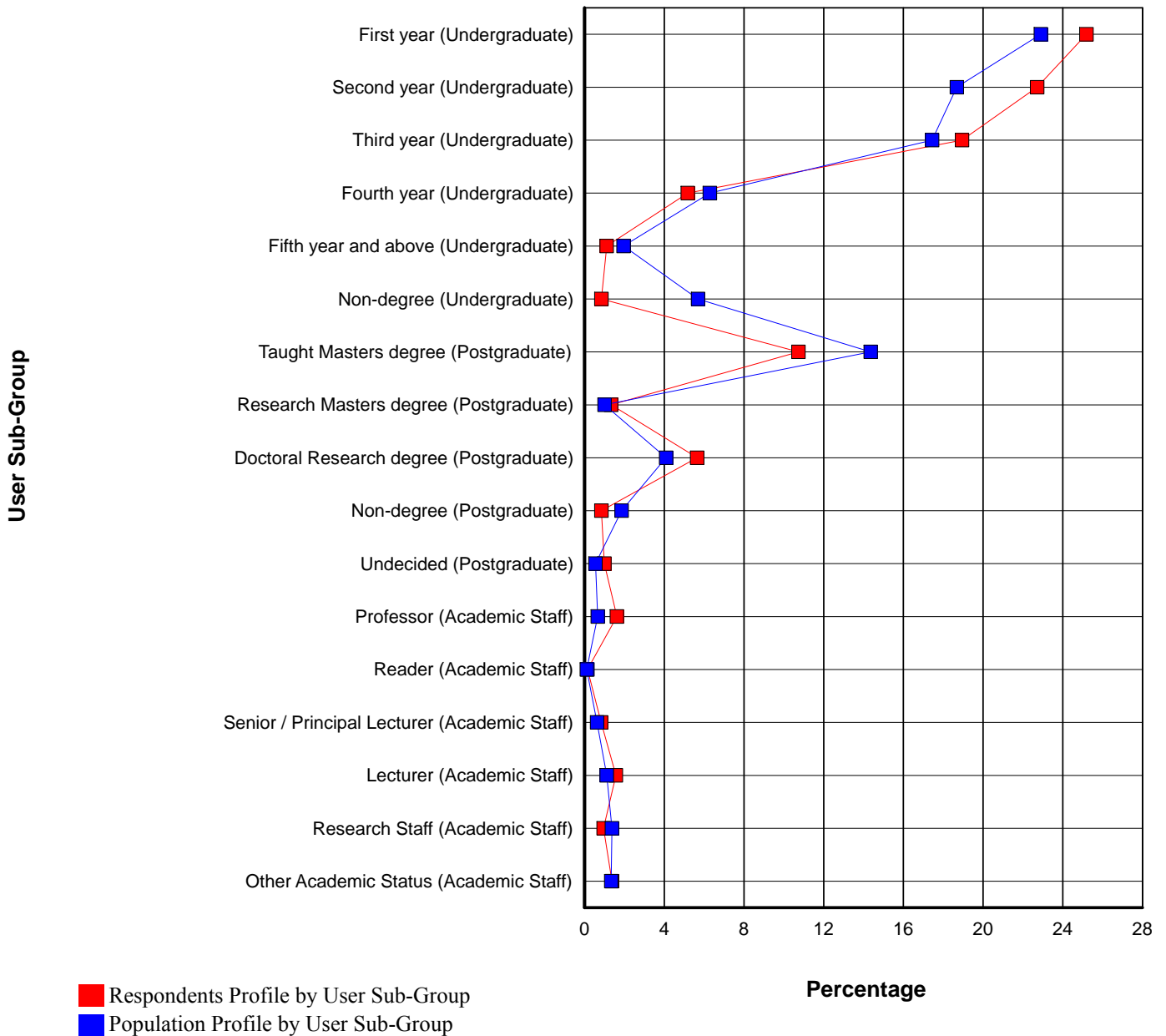
User Group	Respondent n	Respondent %
Undergraduate		
First year	11,953	24.10%
Second year	10,779	21.74%
Third year	8,989	18.13%
Fourth year	2,457	4.95%
Fifth year and above	526	1.06%
Non-degree	400	0.81%
Sub Total:	35,104	70.79%
Postgraduate		
Taught Masters degree	5,094	10.27%
Research Masters degree	631	1.27%
Doctoral Research degree	2,680	5.40%
Non-degree	400	0.81%
Undecided	469	0.95%
Sub Total:	9,274	18.70%
Academic Staff		
Professor	768	1.55%
Reader	67	0.14%
Senior / Principal Lecturer	392	0.79%
Lecturer	746	1.50%
Research Staff	452	0.91%
Other Academic Status	652	1.31%
Sub Total:	3,077	6.20%
Library Staff		
Senior Management	30	0.06%
Department Head / Team Leader	31	0.06%
Professional Staff	160	0.32%
Support Staff	133	0.27%
Other	109	0.22%
Sub Total:	463	0.93%
Staff		
Administrative or Academic Related Staff	581	1.17%
Other staff positions	1,091	2.20%
Sub Total:	1,672	3.37%
Total:	49,590	100.00%

3.1.2 Population and Respondents by User Sub-Group

The chart and table below show a breakdown of survey respondents by sub-group (e.g. First year, Masters, Professor), based on user responses to the demographic questions at the end of the survey instrument and the demographic data provided by institutions in the online Representativeness section*.

The chart maps the 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 the general population (N) and for 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: Dutch, English (British), English (Dutch), English (Fr)
 Institution Type: College or University
 Consortium: European College and University Libraries
 User Group: All (Excluding Library Staff, Staff)

User Sub-Group	Population N	Population %	Respondents n	Respondents %	%N - %n
First year (Undergraduate)	73,228	22.90	11,953	25.19	-2.29
Second year (Undergraduate)	59,744	18.68	10,779	22.71	-4.03
Third year (Undergraduate)	55,780	17.44	8,989	18.94	-1.50
Fourth year (Undergraduate)	20,096	6.28	2,457	5.18	1.11
Fifth year and above (Undergraduate)	6,253	1.96	526	1.11	0.85
Non-degree (Undergraduate)	18,198	5.69	400	0.84	4.85
Taught Masters degree (Postgraduate)	45,920	14.36	5,094	10.73	3.62
Research Masters degree (Postgraduate)	3,198	1.00	631	1.33	-0.33
Doctoral Research degree (Postgraduate)	13,078	4.09	2,680	5.65	-1.56
Non-degree (Postgraduate)	5,933	1.86	400	0.84	1.01
Undecided (Postgraduate)	1,743	0.55	469	0.99	-0.44
Professor (Academic Staff)	2,100	0.66	768	1.62	-0.96
Reader (Academic Staff)	341	0.11	67	0.14	-0.03
Senior / Principal Lecturer (Academic Staff)	1,996	0.62	392	0.83	-0.20
Lecturer (Academic Staff)	3,550	1.11	746	1.57	-0.46
Research Staff (Academic Staff)	4,385	1.37	452	0.95	0.42
Other Academic Status (Academic Staff)	4,265	1.33	652	1.37	-0.04
Total:	319,808	100.00	47,455	100.00	0.00

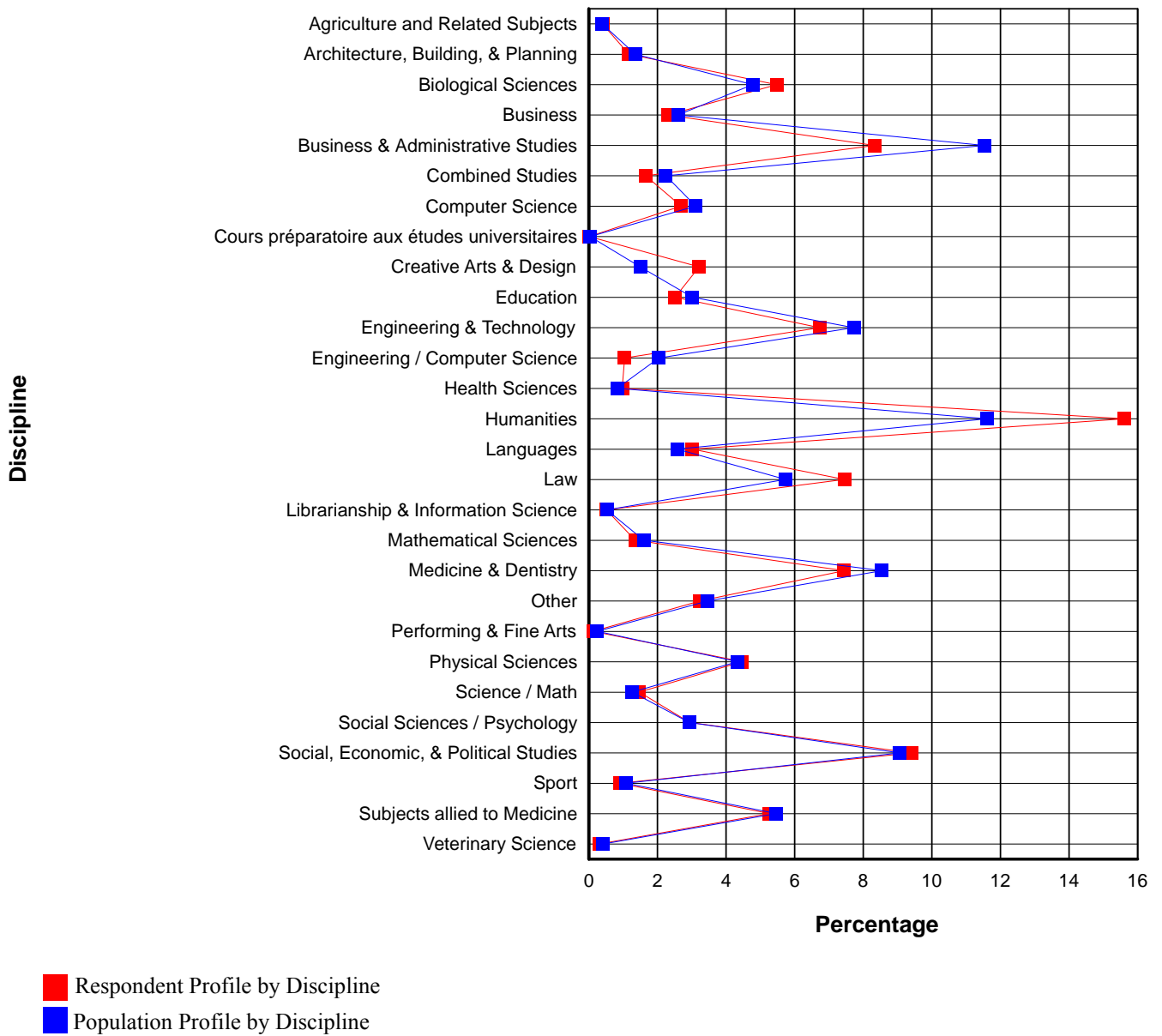
Language: Dutch, English (British), English (Dutch), English (Fr
Institution Type: College or University
Consortium: European College and University Libraries
User Group: All (Excluding Library Staff, Staff)

3.1.3 Population and Respondents by Standard Discipline

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

This section shows survey respondents broken down based on the LibQUAL+® standard discipline categories. 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 the general population (N) and for 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: Dutch, English (British), English (Dutch), English (Fr)
 Institution Type: College or University
 Consortium: European College and University Libraries
 User Group: All (Excluding Library Staff, Staff)

Discipline	Population N	Population %	Respondents n	Respondents %	%N - %n
Agriculture and Related Subjects	1,997	0.39	222	0.40	-0.01
Architecture, Building, & Planning	6,966	1.35	655	1.17	0.19
Biological Sciences	24,613	4.78	3,076	5.48	-0.70
Business	13,384	2.60	1,297	2.31	0.29
Business & Administrative Studies	59,418	11.53	4,676	8.32	3.21
Combined Studies	11,572	2.25	931	1.66	0.59
Computer Science	16,061	3.12	1,509	2.69	0.43
Cours préparatoire aux études universitaires	184	0.04	5	0.01	0.03
Creative Arts & Design	7,725	1.50	1,807	3.22	-1.72
Education	15,544	3.02	1,414	2.52	0.50
Engineering & Technology	39,806	7.72	3,780	6.73	0.99
Engineering / Computer Science	10,505	2.04	586	1.04	1.00
Health Sciences	4,268	0.83	546	0.97	-0.14
Humanities	59,843	11.61	8,775	15.62	-4.01
Languages	13,264	2.57	1,690	3.01	-0.43
Law	29,557	5.74	4,187	7.45	-1.72
Librarianship & Information Science	2,689	0.52	286	0.51	0.01
Mathematical Sciences	8,258	1.60	759	1.35	0.25
Medicine & Dentistry	44,036	8.55	4,181	7.44	1.10
Other	17,839	3.46	1,817	3.23	0.23
Performing & Fine Arts	1,261	0.24	69	0.12	0.12
Physical Sciences	22,365	4.34	2,509	4.47	-0.13
Science / Math	6,503	1.26	825	1.47	-0.21
Social Sciences / Psychology	15,083	2.93	1,650	2.94	-0.01
Social, Economic, & Political Studies	46,739	9.07	5,283	9.41	-0.34
Sport	5,570	1.08	506	0.90	0.18
Subjects allied to Medicine	28,165	5.47	2,958	5.27	0.20
Veterinary Science	2,121	0.41	170	0.30	0.11
Total:	515,336	100.00	56,169	100.00	0.00

Language: Dutch, English (British), English (Dutch), English (Fr
Institution Type: College or University
Consortium: European College and University Libraries
User Group: All (Excluding Library Staff, Staff)

3.1.4 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	514	0.89
18 - 22	32,609	56.31
23 - 30	15,202	26.25
31 - 45	6,254	10.80
46 - 65	3,034	5.24
Over 65	293	0.51
Total:	57,906	100.00

3.1.5 Respondent Profile 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 %
Female	202,001	54.03	34,925	60.32
Male	171,893	45.97	22,972	39.68
Total:	373,894	100.00	57,897	100.00

3.1.6 Respondent Profile by Full or part-time student?

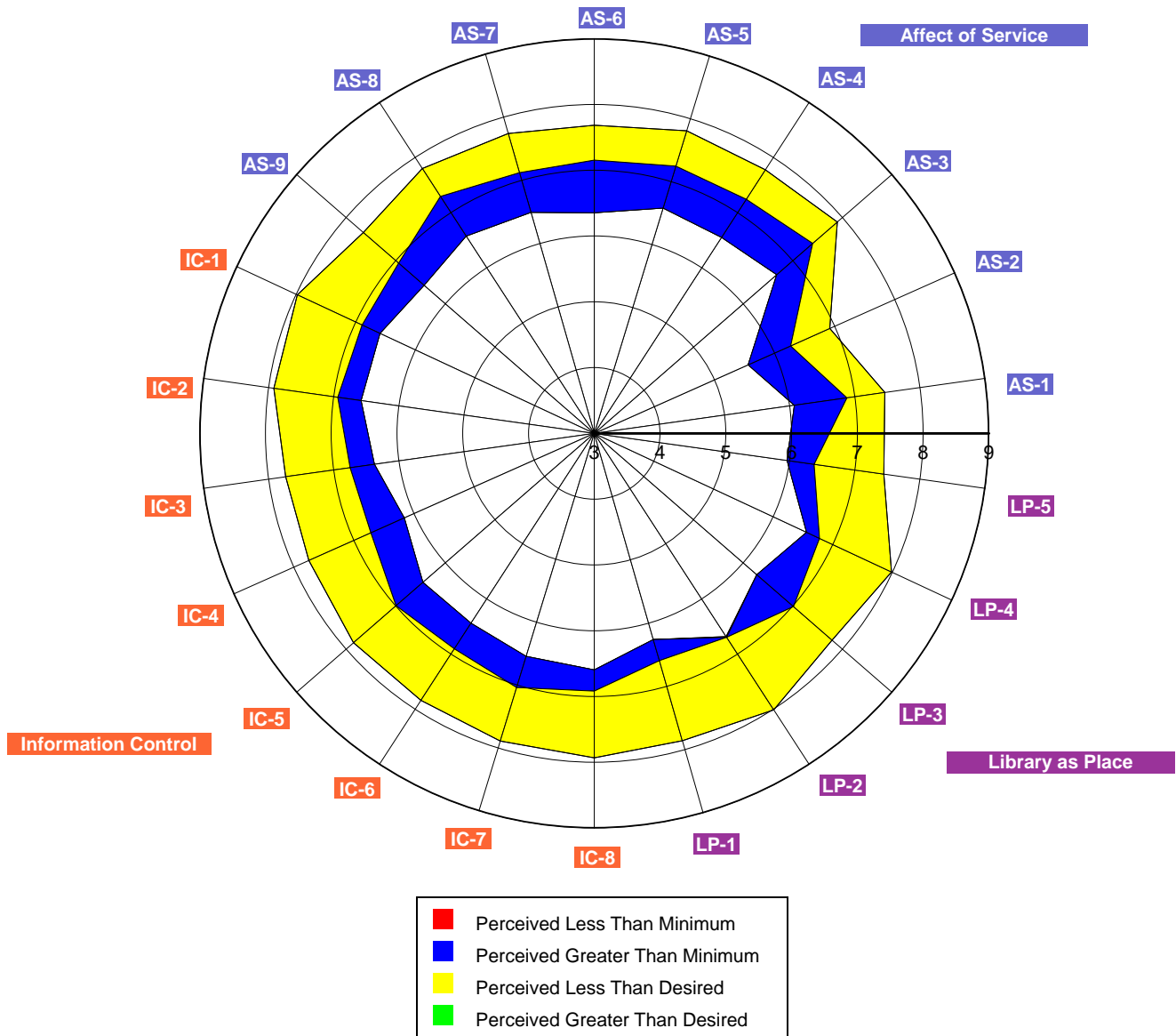
Full or part-time student?	Population N	Population %	Respondents n	Respondents %
Full-time	242,540	80.23	26,403	84.30
Part-time	58,296	19.28	2,520	8.05
Does not apply / NA	1,480	0.49	2,397	7.65
Total:	302,316	100.00	31,320	100.00

3.2 Core Questions Summary for College or University

This radar chart shows the 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, Information Control, and Library as Place.

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 or service superiority) are shaded in blue, yellow, green, and red.

The following two 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: Dutch, English (British), English (Dutch), English (Fr)
 Institution Type: College or University
 Consortium: European College and University Libraries
 User Group: All (Excluding Library Staff)

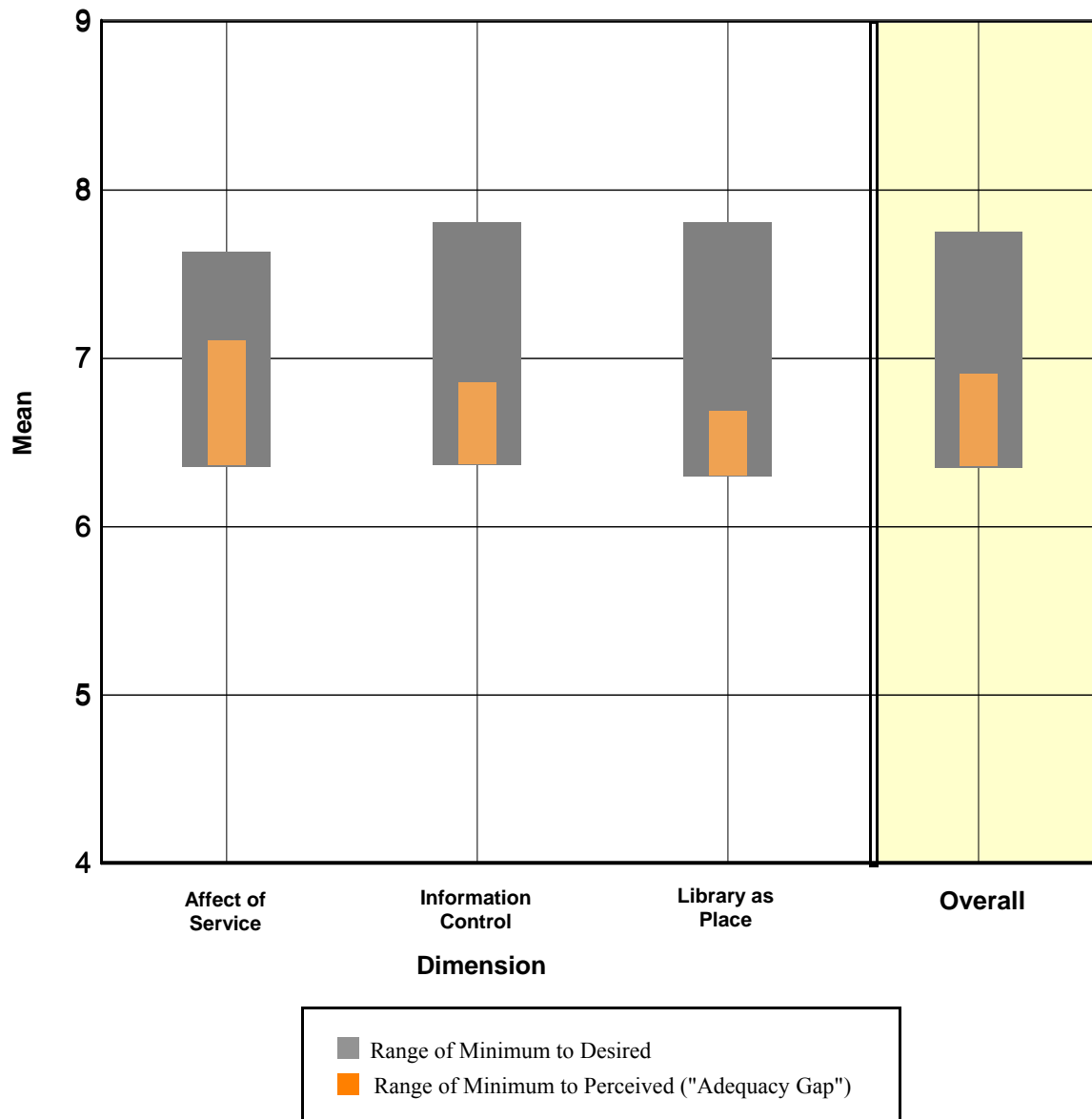
ID	Question Text	Minimum Mean	Desired Mean	Perceived Mean	Adequacy Mean	Superiority Mean	n
Affect of Service							
AS-1	Library staff who instill confidence in users	6.07	7.46	6.88	0.81	-0.58	15,099
AS-2	Giving users individual attention	5.56	6.92	6.27	0.71	-0.65	16,021
AS-3	Library staff who are consistently courteous	6.68	7.90	7.40	0.73	-0.49	16,050
AS-4	Readiness to respond to users' enquiries	6.55	7.78	7.24	0.69	-0.53	15,530
AS-5	Library staff who have the knowledge to answer user questions	6.58	7.81	7.25	0.67	-0.56	16,390
AS-6	Library staff who deal with users in a caring fashion	6.35	7.68	7.15	0.80	-0.53	55,393
AS-7	Library staff who understand the needs of their users	6.49	7.74	7.12	0.63	-0.62	16,215
AS-8	Willingness to help users	6.58	7.80	7.29	0.72	-0.51	15,392
AS-9	Dependability in handling users' service problems	6.43	7.65	6.94	0.51	-0.71	13,836
Information Control							
IC-1	Making electronic resources accessible from my home or office	6.60	7.98	6.90	0.30	-1.08	16,471
IC-2	A library Web site enabling me to locate information on my own	6.58	7.92	6.94	0.36	-0.98	19,613
IC-3	The printed library materials I need for my work	6.37	7.74	6.75	0.37	-0.99	16,971
IC-4	The electronic information resources I need	6.16	7.75	6.72	0.56	-1.03	56,302
IC-5	Modern equipment that lets me easily access needed information	6.45	7.85	7.00	0.54	-0.86	19,774
IC-6	Easy-to-use access tools that allow me to find things on my own	6.44	7.84	6.91	0.46	-0.93	19,820
IC-7	Making information easily accessible for independent use	6.55	7.89	7.04	0.50	-0.85	18,397
IC-8	Print and/or electronic journal collections I require for my work	6.60	7.93	6.92	0.32	-1.01	15,755
Library as Place							
LP-1	Library space that inspires study and learning	6.26	7.86	6.60	0.33	-1.26	56,153
LP-2	Quiet space for individual work	6.70	8.01	6.68	-0.02	-1.33	16,332
LP-3	A comfortable and inviting location	6.28	7.79	7.02	0.74	-0.78	16,745
LP-4	A haven for study, learning, or research	6.56	7.99	6.78	0.22	-1.21	16,312
LP-5	Space for group learning and group study	5.96	7.45	6.38	0.41	-1.07	15,423
Overall:		6.35	7.75	6.90	0.55	-0.85	57,923

ID	Question Text	Minimum SD	Desired SD	Perceived SD	Adequacy SD	Superiority SD	n
Affect of Service							
AS-1	Library staff who instill confidence in users	1.81	1.48	1.67	1.82	1.67	15,099
AS-2	Giving users individual attention	1.90	1.71	1.80	1.87	1.79	16,021
AS-3	Library staff who are consistently courteous	1.79	1.35	1.62	1.92	1.66	16,050
AS-4	Readiness to respond to users' enquiries	1.65	1.33	1.54	1.74	1.53	15,530
AS-5	Library staff who have the knowledge to answer user questions	1.71	1.35	1.53	1.71	1.51	16,390
AS-6	Library staff who deal with users in a caring fashion	1.77	1.40	1.63	1.85	1.63	55,393
AS-7	Library staff who understand the needs of their users	1.69	1.33	1.55	1.77	1.58	16,215
AS-8	Willingness to help users	1.69	1.34	1.53	1.74	1.52	15,392
AS-9	Dependability in handling users' service problems	1.65	1.40	1.58	1.77	1.63	13,836
Information Control							
IC-1	Making electronic resources accessible from my home or office	1.78	1.35	1.74	2.00	1.82	16,471
IC-2	A library Web site enabling me to locate information on my own	1.66	1.30	1.62	1.85	1.70	19,613
IC-3	The printed library materials I need for my work	1.71	1.46	1.64	1.95	1.83	16,971
IC-4	The electronic information resources I need	1.65	1.37	1.55	1.84	1.72	56,302
IC-5	Modern equipment that lets me easily access needed information	1.64	1.29	1.55	1.81	1.65	19,774
IC-6	Easy-to-use access tools that allow me to find things on my own	1.62	1.28	1.52	1.78	1.62	19,820
IC-7	Making information easily accessible for independent use	1.61	1.25	1.47	1.75	1.57	18,397
IC-8	Print and/or electronic journal collections I require for my work	1.69	1.35	1.58	1.93	1.75	15,755
Library as Place							
LP-1	Library space that inspires study and learning	1.75	1.44	1.82	2.16	2.08	56,153
LP-2	Quiet space for individual work	1.79	1.43	1.92	2.32	2.15	16,332
LP-3	A comfortable and inviting location	1.71	1.35	1.66	2.06	1.85	16,745
LP-4	A haven for study, learning, or research	1.70	1.34	1.72	2.07	1.93	16,312
LP-5	Space for group learning and group study	1.90	1.69	1.93	2.36	2.30	15,423
Overall:		1.31	0.99	1.14	1.36	1.19	57,923

Language: Dutch, English (British), English (Dutch), English (Fr)
Institution Type: College or University
Consortium: European College and University Libraries
User Group: All (Excluding Library Staff)

3.3 Core Question Dimensions Summary for College or University

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.



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	6.36	7.63	7.10	0.74	-0.54	56,996
Information Control	6.37	7.81	6.85	0.48	-0.96	57,784
Library as Place	6.30	7.81	6.68	0.38	-1.13	56,832
Overall	6.35	7.75	6.90	0.55	-0.85	57,923

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	1.55	1.21	1.39	1.54	1.35	56,996
Information Control	1.41	1.10	1.27	1.50	1.36	57,784
Library as Place	1.58	1.30	1.61	1.92	1.82	56,832
Overall	1.31	0.99	1.14	1.36	1.19	57,923

3.4 Local Question Summary for College or University

This table shows mean scores of 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
A center for intellectual stimulation	6.49	7.91	7.41	0.92	-0.50	346
Ability to navigate library Web pages easily	6.41	7.63	6.96	0.55	-0.68	1,513
Access to archives, special collections	6.16	7.35	6.71	0.55	-0.64	696
Access to photocopying and printing facilities	6.54	7.88	6.78	0.24	-1.10	4,124
Accessing library resources via the VLE	6.16	7.40	6.73	0.58	-0.67	436
Adequate hours of service	6.85	7.95	7.32	0.47	-0.64	1,672
An environment that facilitates group study and problem solving	6.06	7.45	6.67	0.60	-0.78	1,116
An online catalog that is user-friendly for finding materials	6.37	7.80	6.89	0.52	-0.91	362
An online service that allows me to search easily for journal articles	7.06	8.36	7.10	0.04	-1.26	368
Availability of online help when using my library's electronic resources	6.05	7.54	6.14	0.08	-1.41	1,666
Availability of subject specialist assistance	5.98	7.35	6.35	0.36	-1.01	2,327
Availability of timely help when using my library's electronic resources	6.15	7.23	6.71	0.56	-0.52	254
Browsing library materials in the stacks	6.08	7.46	6.56	0.48	-0.90	378
Contribution to the intellectual atmosphere of the campus	6.28	7.45	6.77	0.50	-0.68	874
Convenience of borrowing books	6.63	8.25	7.16	0.53	-1.09	960
Convenience of borrowing books from other colleges	6.10	7.39	6.73	0.63	-0.66	253
Convenient access to library collections	6.34	7.98	6.70	0.35	-1.28	955
Convenient business hours	6.53	7.98	7.01	0.48	-0.97	4,031
Convenient service hours	6.79	8.10	7.01	0.22	-1.09	4,021
Creating, editing, and publishing with digital media in appropriate library spaces	5.94	7.13	6.70	0.76	-0.44	141
Ease of use of electronic resources	6.50	7.82	6.99	0.49	-0.83	1,346
Ease of use of library-provided electronic books	6.59	8.03	6.70	0.12	-1.32	355
Electronic resources matching my information needs	6.09	7.36	6.78	0.69	-0.58	253
Enabling me to find information myself 24 hours a day	7.06	8.10	7.71	0.65	-0.40	841
Facilitating self-directed research	6.70	7.98	7.51	0.81	-0.47	194
Fine and replacement policies that are reasonable	6.50	7.68	6.37	-0.13	-1.31	1,459
Helpfulness in dealing with users' IT problems	6.59	7.74	6.82	0.23	-0.93	2,857

Language: Dutch, English (British), English (Dutch), English (Fr)
 Institution Type: College or University
 Consortium: European College and University Libraries
 User Group: All (Excluding Library Staff)

Information provided by the Careers Service	6.04	7.32	6.88	0.84	-0.43	76
Informing me of useful library services	5.64	6.99	6.28	0.64	-0.71	1,899
Instruction in library use, when needed	6.06	7.37	6.72	0.66	-0.65	723
Librarians providing help that both assists in finding the information needed now, and improves skills useful in future information searches	6.58	7.42	7.09	0.51	-0.33	167
Librarians teaching me how to access or manage information	6.13	7.45	7.20	1.08	-0.24	368
Library orientations / instruction sessions	5.42	6.76	6.52	1.10	-0.24	3,679
Library staff teaching me how to effectively use the electronically available databases, journals, and books	6.06	7.36	6.62	0.55	-0.74	1,877
Library staff teaching me how to find information	6.30	7.37	7.03	0.73	-0.34	961
Making me aware of library resources and services	5.76	7.26	6.72	0.96	-0.53	3,270
Making me aware of library services	6.13	7.34	6.69	0.56	-0.65	696
Modern equipment	6.16	7.54	7.48	1.32	-0.07	352
Online tutorials and other learning tools that help me use library resources and services independently	5.75	6.95	6.53	0.79	-0.42	583
Providing direction to self-navigate the library	6.39	7.63	7.32	0.93	-0.31	431
Providing help when and where I need it	6.64	7.91	7.33	0.69	-0.58	976
Providing me with the information skills I need for my work or study	6.58	7.77	7.05	0.47	-0.73	380
Provision of information skills training	5.79	7.02	6.57	0.79	-0.44	597
Provision of space and facilities that allow me to use my own laptop and/or other mobile device	6.50	7.85	6.74	0.24	-1.11	600
Ready access to computers / Internet / software	6.36	7.71	6.21	-0.15	-1.50	1,939
Resources added to library collections on request	5.50	7.20	6.25	0.75	-0.95	142
Space for students to study and work in groups	6.52	7.49	7.11	0.59	-0.38	395
Subject bibliographies	6.30	7.61	6.84	0.54	-0.78	786
Support provided by the library to access course materials (textbooks, readings, online resources)	6.80	8.12	7.01	0.20	-1.11	366
Teaching me how to access, evaluate, and use information	5.84	7.17	6.66	0.81	-0.52	609
Teaching me how to locate, evaluate, and use information	6.11	7.40	6.79	0.68	-0.61	1,145
The 24 by 7 live chat service provides information assistance when and where I need it	6.08	7.13	7.31	1.23	0.18	344
The main texts and readings I need for my work	7.04	8.19	6.95	-0.09	-1.24	3,275
Timely document delivery / interlibrary loan	6.36	7.60	6.92	0.55	-0.68	244
Using the library for research	6.59	8.10	6.79	0.20	-1.31	176

This table shows the standard deviations 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
A center for intellectual stimulation	1.73	1.26	1.47	1.78	1.47	346
Ability to navigate library Web pages easily	1.62	1.33	1.59	1.79	1.63	1,513
Access to archives, special collections	1.98	1.81	1.78	2.13	2.12	696
Access to photocopying and printing facilities	1.77	1.38	1.92	2.18	2.04	4,124
Accessing library resources via the VLE	1.89	1.66	1.68	1.88	1.66	436
Adequate hours of service	1.69	1.35	1.74	2.10	1.88	1,672
An environment that facilitates group study and problem solving	1.93	1.69	1.75	2.12	2.09	1,116
An online catalog that is user-friendly for finding materials	1.76	1.49	1.77	1.96	1.73	362
An online service that allows me to search easily for journal articles	1.63	1.07	1.60	1.87	1.70	368
Availability of online help when using my library's electronic resources	1.73	1.53	1.80	1.93	1.91	1,666
Availability of subject specialist assistance	1.92	1.67	1.88	2.01	2.02	2,327
Availability of timely help when using my library's electronic resources	1.52	1.37	1.62	1.70	1.70	254
Browsing library materials in the stacks	1.84	1.72	1.63	2.00	2.00	378
Contribution to the intellectual atmosphere of the campus	1.87	1.56	1.65	1.87	1.76	874
Convenience of borrowing books	1.59	1.07	1.72	2.12	1.90	960
Convenience of borrowing books from other colleges	1.77	1.50	1.90	1.90	1.91	253
Convenient access to library collections	1.55	1.17	1.68	1.98	1.81	955
Convenient business hours	1.63	1.30	1.85	2.16	2.00	4,031
Convenient service hours	1.71	1.26	1.86	2.31	2.10	4,021
Creating, editing, and publishing with digital media in appropriate library spaces	1.95	1.81	1.42	1.81	1.86	141
Ease of use of electronic resources	1.59	1.33	1.59	1.88	1.69	1,346
Ease of use of library-provided electronic books	1.62	1.22	1.58	1.98	1.72	355
Electronic resources matching my information needs	1.45	1.25	1.49	1.68	1.67	253
Enabling me to find information myself 24 hours a day	1.66	1.22	1.37	1.72	1.43	841
Facilitating self-directed research	1.53	1.26	1.35	1.54	1.42	194
Fine and replacement policies that are reasonable	1.82	1.56	2.03	2.36	2.22	1,459
Helpfulness in dealing with users' IT problems	1.70	1.43	1.74	1.91	1.81	2,857

Language: Dutch, English (British), English (Dutch), English (Fr
Institution Type: College or University
Consortium: European College and University Libraries
User Group: All (Excluding Library Staff)

Information provided by the Careers Service	2.04	1.56	1.67	2.10	2.14	76
Informing me of useful library services	1.93	1.72	1.76	2.02	1.93	1,899
Instruction in library use, when needed	1.55	1.42	1.43	1.68	1.71	723
Librarians providing help that both assists in finding the information needed now, and improves skills useful in future information searches	1.66	1.41	1.56	1.67	1.55	167
Librarians teaching me how to access or manage information	1.98	1.56	1.49	1.84	1.70	368
Library orientations / instruction sessions	2.23	2.05	1.92	2.27	2.15	3,679
Library staff teaching me how to effectively use the electronically available databases, journals, and books	2.01	1.72	1.92	2.14	2.03	1,877
Library staff teaching me how to find information	1.95	1.59	1.85	1.98	1.73	961
Making me aware of library resources and services	1.77	1.46	1.60	1.88	1.70	3,270
Making me aware of library services	1.80	1.58	1.85	1.95	1.86	696
Modern equipment	1.76	1.35	1.29	1.84	1.55	352
Online tutorials and other learning tools that help me use library resources and services independently	2.00	1.87	1.79	1.97	1.82	583
Providing direction to self-navigate the library	1.58	1.29	1.52	1.69	1.50	431
Providing help when and where I need it	1.78	1.31	1.48	1.86	1.59	976
Providing me with the information skills I need for my work or study	1.66	1.38	1.39	1.78	1.52	380
Provision of information skills training	2.08	1.79	1.72	2.01	1.83	597
Provision of space and facilities that allow me to use my own laptop and/or other mobile device	1.95	1.57	1.87	2.27	2.16	600
Ready access to computers / Internet / software	1.58	1.36	1.90	2.15	2.12	1,939
Resources added to library collections on request	1.47	1.54	1.60	1.84	1.76	142
Space for students to study and work in groups	1.87	1.59	1.77	1.99	1.89	395
Subject bibliographies	1.83	1.53	1.56	1.84	1.76	786
Support provided by the library to access course materials (textbooks, readings, online resources)	1.61	1.29	1.57	1.97	1.82	366
Teaching me how to access, evaluate, and use information	1.94	1.73	1.81	1.91	1.94	609
Teaching me how to locate, evaluate, and use information	1.83	1.57	1.75	1.84	1.78	1,145
The 24 by 7 live chat service provides information assistance when and where I need it	2.10	1.93	1.60	2.03	1.71	344
The main texts and readings I need for my work	1.66	1.28	1.63	1.94	1.77	3,275
Timely document delivery / interlibrary loan	1.67	1.55	1.63	1.77	1.64	244
Using the library for research	1.68	1.51	1.72	2.17	1.93	176

3.5 General Satisfaction Questions Summary for College or University

This table displays the 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 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.	7.35	1.50	30,578
In general, I am satisfied with library support for my learning, research, and/or teaching needs.	6.97	1.55	30,663
How would you rate the overall quality of the service provided by the library?	7.11	1.31	57,905

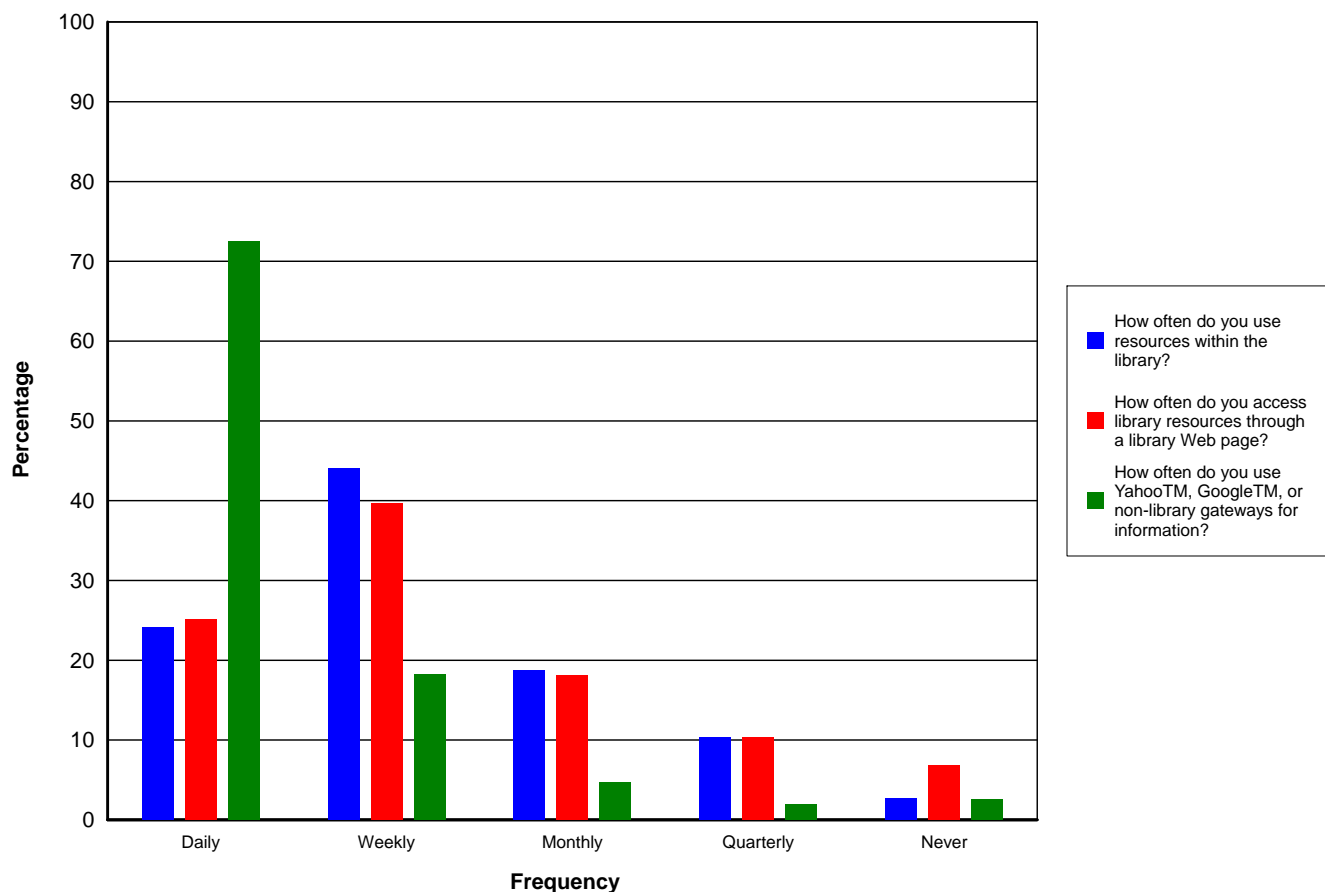
3.6 Information Literacy Outcomes Questions Summary for College or University

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 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.	6.01	1.82	23,226
The library aids my advancement in my academic discipline or work.	6.98	1.56	26,289
The library enables me to be more efficient in my academic pursuits or work.	6.99	1.59	26,776
The library helps me distinguish between trustworthy and untrustworthy information.	6.08	1.80	26,626
The library provides me with the information skills I need in my work or study.	6.72	1.60	22,904

3.7 Library Use Summary for College or University

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 within the library?	14,012	25,480	10,876	6,010	1,540	57,918
	24.19%	43.99%	18.78%	10.38%	2.66%	100.00%
How often do you access library resources through a library Web page?	14,541	22,945	10,463	6,022	3,939	57,910
	25.11%	39.62%	18.07%	10.40%	6.80%	100.00%
How often do you use Yahoo™, Google™, or non-library gateways for information?	41,965	10,577	2,739	1,128	1,499	57,908
	72.47%	18.27%	4.73%	1.95%	2.59%	100.00%

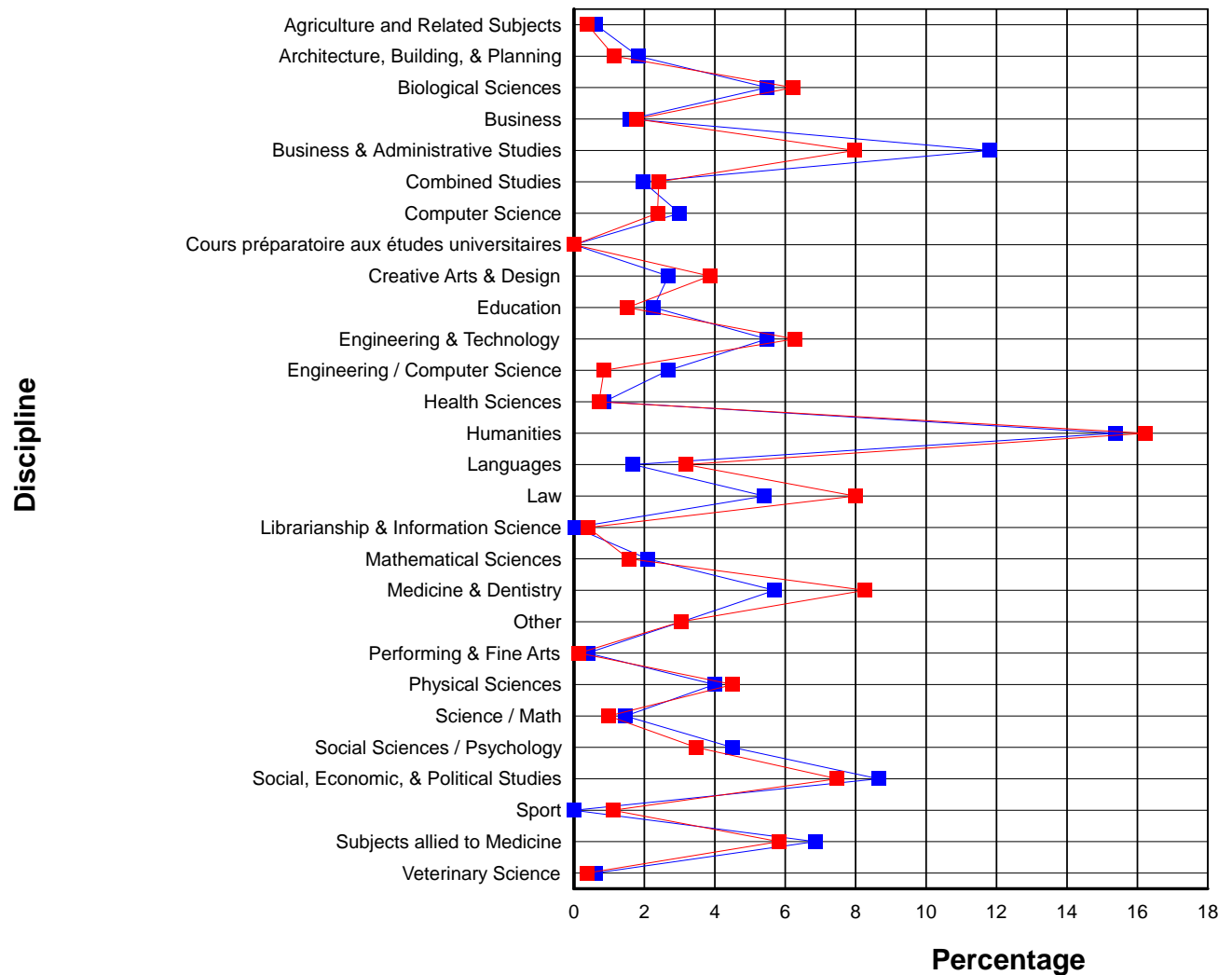
4 Summary for Undergraduate

4.1 Demographic Summary for Undergraduate

4.1.1 Population and Respondent Profiles by Standard Discipline

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

This section shows survey respondents broken down based on the LibQUAL+® standard discipline categories. 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 the general population (N) and for survey respondents (n).



- Respondent Profile by Discipline
- Population Profile by Discipline

Language: Dutch, English (British), English (Dutch), English (Fr)
 Institution Type: College or University
 Consortium: European College and University Libraries
 User Group: Undergraduate

Discipline	Population N	Population %	Respondents n	Respondents %	%N - %n
Agriculture and Related Subjects	1,481	0.62	139	0.38	0.23
Architecture, Building, & Planning	4,375	1.82	416	1.15	0.68
Biological Sciences	13,154	5.49	2,253	6.21	-0.73
Business	3,835	1.60	639	1.76	-0.16
Business & Administrative Studies	28,286	11.80	2,888	7.97	3.83
Combined Studies	4,710	1.96	874	2.41	-0.45
Computer Science	7,197	3.00	860	2.37	0.63
Cours préparatoire aux études universitaires	0	0.00	2	0.01	-0.01
Creative Arts & Design	6,434	2.68	1,398	3.86	-1.17
Education	5,426	2.26	551	1.52	0.74
Engineering & Technology	13,151	5.48	2,272	6.27	-0.78
Engineering / Computer Science	6,430	2.68	310	0.86	1.83
Health Sciences	2,041	0.85	258	0.71	0.14
Humanities	36,860	15.37	5,883	16.23	-0.85
Languages	3,997	1.67	1,152	3.18	-1.51
Law	12,967	5.41	2,895	7.98	-2.58
Librarianship & Information Science	50	0.02	144	0.40	-0.38
Mathematical Sciences	5,011	2.09	566	1.56	0.53
Medicine & Dentistry	13,663	5.70	2,997	8.27	-2.57
Other	7,334	3.06	1,101	3.04	0.02
Performing & Fine Arts	930	0.39	52	0.14	0.24
Physical Sciences	9,578	3.99	1,636	4.51	-0.52
Science / Math	3,503	1.46	357	0.98	0.48
Social Sciences / Psychology	10,775	4.49	1,257	3.47	1.03
Social, Economic, & Political Studies	20,727	8.64	2,711	7.48	1.17
Sport	0	0.00	400	1.10	-1.10
Subjects allied to Medicine	16,413	6.84	2,110	5.82	1.03
Veterinary Science	1,460	0.61	135	0.37	0.24
Total:	239,788	100.00	36,256	100.00	0.00

Language: Dutch, English (British), English (Dutch), English (Fr)
Institution Type: College or University
Consortium: European College and University Libraries
User Group: Undergraduate

4.1.2 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	458	1.26
18 - 22	28,205	77.78
23 - 30	5,390	14.86
31 - 45	1,573	4.34
46 - 65	590	1.63
Over 65	47	0.13
Total:	36,263	100.00

4.1.3 Respondent Profile 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 %
Female	137,368	54.83	22,637	62.43
Male	113,156	45.17	13,622	37.57
Total:	250,524	100.00	36,259	100.00

4.1.4 Respondent Profile by Full or part-time student?

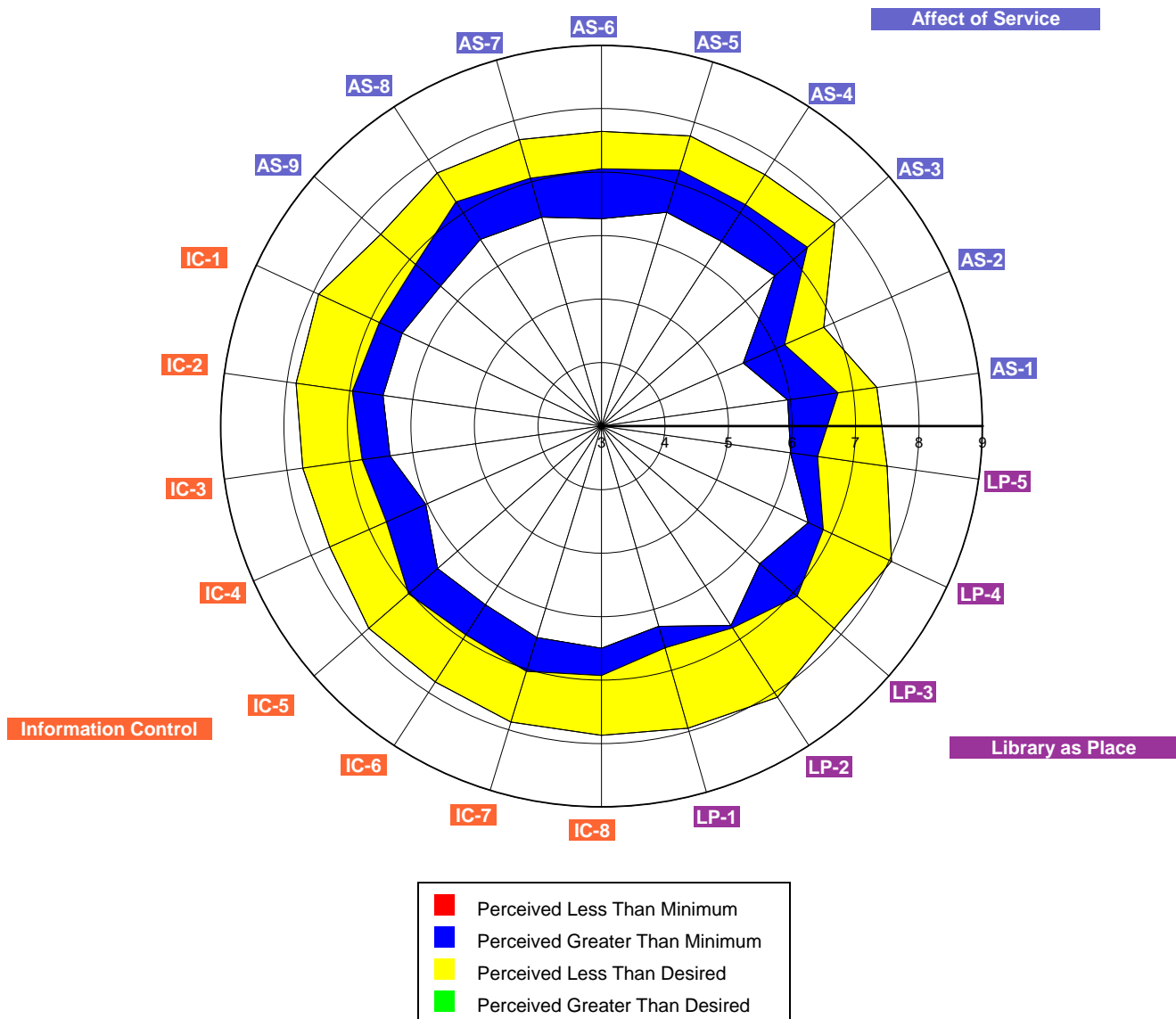
Full or part-time student?	Population N	Population %	Respondents n	Respondents %
Full-time	188,993	88.65	19,501	95.64
Part-time	23,431	10.99	768	3.77
Does not apply / NA	764	0.36	121	0.59
Total:	213,188	100.00	20,390	100.00

4.2 Core Questions Summary for Undergraduate

This radar chart shows the 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, Information Control, and Library as Place.

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 or service superiority) are shaded in blue, yellow, green, and red.

The following two 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.)

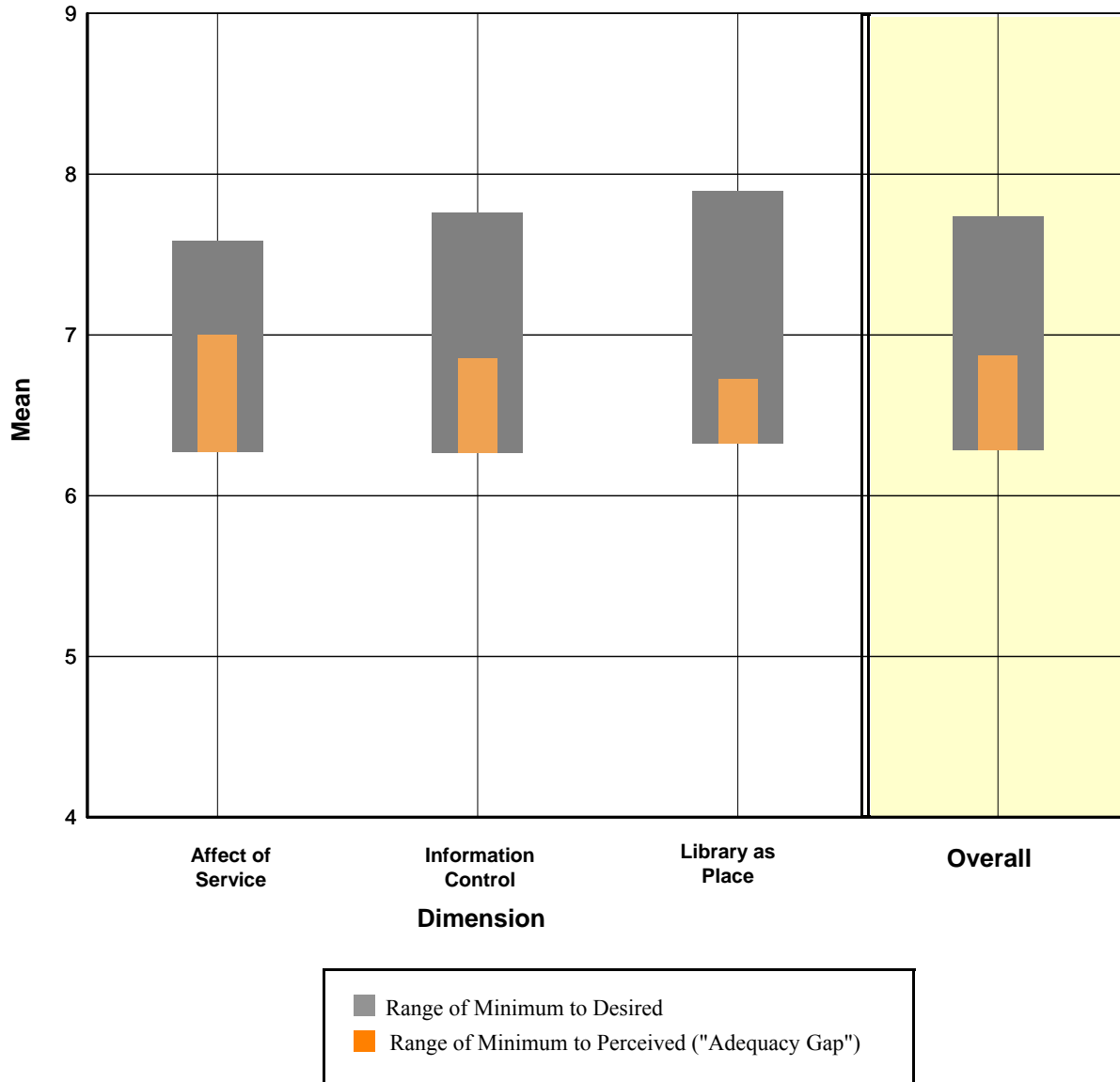


ID	Question Text	Minimum Mean	Desired Mean	Perceived Mean	Adequacy Mean	Superiority Mean	n
Affect of Service							
AS-1	Library staff who instill confidence in users	5.96	7.38	6.76	0.80	-0.62	9,444
AS-2	Giving users individual attention	5.44	6.83	6.15	0.71	-0.68	10,026
AS-3	Library staff who are consistently courteous	6.62	7.86	7.30	0.68	-0.57	10,074
AS-4	Readiness to respond to users' enquiries	6.47	7.72	7.16	0.69	-0.56	9,682
AS-5	Library staff who have the knowledge to answer user questions	6.52	7.78	7.21	0.69	-0.56	10,283
AS-6	Library staff who deal with users in a caring fashion	6.27	7.64	7.05	0.79	-0.59	34,566
AS-7	Library staff who understand the needs of their users	6.42	7.69	7.06	0.64	-0.63	10,166
AS-8	Willingness to help users	6.51	7.75	7.21	0.70	-0.54	9,644
AS-9	Dependability in handling users' service problems	6.36	7.60	6.88	0.52	-0.73	8,606
Information Control							
IC-1	Making electronic resources accessible from my home or office	6.46	7.91	6.86	0.40	-1.05	10,326
IC-2	A library Web site enabling me to locate information on my own	6.47	7.86	6.96	0.49	-0.89	12,229
IC-3	The printed library materials I need for my work	6.36	7.75	6.81	0.44	-0.94	10,674
IC-4	The electronic information resources I need	6.03	7.68	6.71	0.68	-0.98	35,279
IC-5	Modern equipment that lets me easily access needed information	6.42	7.85	7.03	0.61	-0.83	12,624
IC-6	Easy-to-use access tools that allow me to find things on my own	6.36	7.80	6.92	0.56	-0.88	12,494
IC-7	Making information easily accessible for independent use	6.48	7.87	7.04	0.56	-0.83	11,603
IC-8	Print and/or electronic journal collections I require for my work	6.50	7.87	6.93	0.43	-0.94	9,781
Library as Place							
LP-1	Library space that inspires study and learning	6.28	7.95	6.63	0.35	-1.31	35,926
LP-2	Quiet space for individual work	6.75	8.09	6.79	0.04	-1.30	10,500
LP-3	A comfortable and inviting location	6.30	7.86	7.08	0.78	-0.78	10,684
LP-4	A haven for study, learning, or research	6.59	8.04	6.85	0.26	-1.18	10,505
LP-5	Space for group learning and group study	6.01	7.54	6.44	0.43	-1.11	10,048
Overall:		6.29	7.74	6.87	0.59	-0.86	36,270

ID	Question Text	Minimum SD	Desired SD	Perceived SD	Adequacy SD	Superiority SD	n
Affect of Service							
AS-1	Library staff who instill confidence in users	1.82	1.51	1.69	1.82	1.67	9,444
AS-2	Giving users individual attention	1.90	1.73	1.81	1.88	1.79	10,026
AS-3	Library staff who are consistently courteous	1.79	1.36	1.66	1.94	1.70	10,074
AS-4	Readiness to respond to users' enquiries	1.66	1.37	1.55	1.75	1.54	9,682
AS-5	Library staff who have the knowledge to answer user questions	1.72	1.36	1.53	1.72	1.51	10,283
AS-6	Library staff who deal with users in a caring fashion	1.78	1.41	1.65	1.87	1.66	34,566
AS-7	Library staff who understand the needs of their users	1.70	1.35	1.56	1.78	1.59	10,166
AS-8	Willingness to help users	1.69	1.34	1.54	1.72	1.51	9,644
AS-9	Dependability in handling users' service problems	1.66	1.41	1.56	1.76	1.63	8,606
Information Control							
IC-1	Making electronic resources accessible from my home or office	1.78	1.37	1.71	1.96	1.79	10,326
IC-2	A library Web site enabling me to locate information on my own	1.66	1.32	1.59	1.81	1.66	12,229
IC-3	The printed library materials I need for my work	1.70	1.43	1.62	1.90	1.78	10,674
IC-4	The electronic information resources I need	1.64	1.37	1.52	1.81	1.70	35,279
IC-5	Modern equipment that lets me easily access needed information	1.65	1.29	1.54	1.79	1.63	12,624
IC-6	Easy-to-use access tools that allow me to find things on my own	1.63	1.28	1.51	1.76	1.59	12,494
IC-7	Making information easily accessible for independent use	1.61	1.25	1.46	1.73	1.55	11,603
IC-8	Print and/or electronic journal collections I require for my work	1.69	1.35	1.56	1.90	1.72	9,781
Library as Place							
LP-1	Library space that inspires study and learning	1.71	1.33	1.78	2.12	2.00	35,926
LP-2	Quiet space for individual work	1.73	1.32	1.86	2.25	2.06	10,500
LP-3	A comfortable and inviting location	1.69	1.29	1.62	2.02	1.80	10,684
LP-4	A haven for study, learning, or research	1.66	1.26	1.67	2.00	1.84	10,505
LP-5	Space for group learning and group study	1.86	1.60	1.90	2.32	2.24	10,048
Overall:		1.30	0.97	1.12	1.35	1.17	36,270

4.3 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.



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	6.27	7.58	7.00	0.73	-0.58	35,611
Information Control	6.27	7.76	6.85	0.59	-0.91	36,186
Library as Place	6.33	7.89	6.73	0.40	-1.17	36,136
Overall	6.29	7.74	6.87	0.59	-0.86	36,270

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	1.22	1.40	1.54	1.35	35,611
Information Control	1.40	1.10	1.24	1.47	1.32	36,186
Library as Place	1.52	1.17	1.57	1.87	1.74	36,136
Overall	1.30	0.97	1.12	1.35	1.17	36,270

4.4 Local Question Summary for Undergraduate

This table shows mean scores of 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	5.98	7.33	6.70	0.72	-0.63	187
Availability of online help when using my library's electronic resources	6.02	7.50	6.10	0.08	-1.40	1,143
Informing me of useful library services	5.53	6.97	6.18	0.64	-0.80	1,371
Librarians teaching me how to access or manage information	5.92	7.43	6.95	1.03	-0.48	190
An environment that facilitates group study and problem solving	6.12	7.58	6.67	0.55	-0.91	809
Ease of use of electronic resources	6.37	7.81	7.06	0.69	-0.76	705
Providing help when and where I need it	6.61	7.88	7.37	0.76	-0.52	721
Teaching me how to access, evaluate, and use information	5.86	7.21	6.64	0.78	-0.57	410
Making me aware of library services	6.16	7.43	6.71	0.55	-0.72	479
Subject bibliographies	6.20	7.51	6.89	0.69	-0.62	572
Library orientations / instruction sessions	5.38	6.74	6.54	1.16	-0.21	2,498
Electronic resources matching my information needs	6.04	7.31	6.80	0.76	-0.51	170
Fine and replacement policies that are reasonable	6.57	7.74	6.25	-0.31	-1.48	1,044
Contribution to the intellectual atmosphere of the campus	6.07	7.34	6.81	0.74	-0.53	577
Ready access to computers / Internet / software	6.34	7.72	6.08	-0.27	-1.64	1,098
Library staff teaching me how to find information	6.27	7.37	7.00	0.73	-0.38	711
Using the library for research	6.45	7.95	6.83	0.38	-1.13	110
Online tutorials and other learning tools that help me use library resources and services independently	5.60	6.86	6.39	0.79	-0.48	376
Creating, editing, and publishing with digital media in appropriate library spaces	5.83	7.22	6.68	0.84	-0.55	77
Accessing library resources via the VLE	5.89	7.17	6.44	0.55	-0.73	257
Information provided by the Careers Service						0
Convenience of borrowing books	6.55	8.20	7.19	0.64	-1.01	438
Support provided by the library to access course materials (textbooks, readings, online resources)	6.67	8.16	6.78	0.11	-1.38	227
Ease of use of library-provided electronic books	6.40	8.06	6.72	0.32	-1.34	207
An online service that allows me to search easily for journal articles	6.77	8.26	6.95	0.18	-1.31	220
Provision of space and facilities that allow me to use my own laptop and/or other mobile device	6.57	7.97	6.65	0.08	-1.32	355
Access to photocopying and printing facilities	6.53	7.86	6.94	0.41	-0.93	2,364
The main texts and readings I need for my work	6.98	8.17	6.98	0.00	-1.19	2,118

Provision of information skills training	5.82	6.99	6.57	0.75	-0.42	319
Helpfulness in dealing with users' IT problems	6.54	7.68	6.76	0.22	-0.92	1,975
Availability of subject specialist assistance	5.85	7.28	6.10	0.26	-1.17	1,389
Library staff teaching me how to effectively use the electronically available databases, journals, and books	6.04	7.33	6.57	0.53	-0.76	1,283
Making me aware of library resources and services	5.75	7.27	6.81	1.06	-0.46	1,900
Teaching me how to locate, evaluate, and use information	6.05	7.37	6.71	0.67	-0.66	731
Convenient service hours	6.86	8.19	6.98	0.12	-1.20	2,861
Ability to navigate library Web pages easily	6.40	7.65	7.01	0.61	-0.64	943
A center for intellectual stimulation	6.45	7.94	7.61	1.17	-0.33	193
Access to archives, special collections	6.12	7.39	6.69	0.57	-0.69	524
Browsing library materials in the stacks	5.93	7.45	6.67	0.74	-0.78	270
Convenient access to library collections	6.21	7.97	6.87	0.66	-1.10	432
Convenient business hours	6.46	7.91	7.13	0.66	-0.78	2,208
Enabling me to find information myself 24 hours a day	7.09	8.13	7.69	0.60	-0.44	508
Facilitating self-directed research	6.53	7.98	7.43	0.90	-0.55	80
Instruction in library use, when needed	5.99	7.37	6.62	0.63	-0.75	573
Librarians providing help that both assists in finding the information needed now, and improves skills useful in future information searches	6.45	7.22	7.06	0.61	-0.17	107
Modern equipment	6.12	7.54	7.53	1.41	-0.01	213
Providing direction to self-navigate the library	6.36	7.64	7.27	0.91	-0.37	278
Resources added to library collections on request	5.57	7.26	6.21	0.64	-1.05	76
Timely document delivery / interlibrary loan	6.13	7.41	6.74	0.61	-0.67	123
Space for students to study and work in groups	6.65	7.63	7.03	0.39	-0.60	283
Adequate hours of service	6.85	7.99	7.37	0.53	-0.62	1,238
Providing me with the information skills I need for my work or study	6.53	7.77	7.02	0.50	-0.75	284
The 24 by 7 live chat service provides information assistance when and where I need it	6.05	7.19	7.29	1.24	0.10	289
Availability of timely help when using my library's electronic resources	6.10	7.13	6.81	0.71	-0.32	165
An online catalog that is user-friendly for finding materials	6.30	7.72	6.95	0.64	-0.77	221

This table displays the standard deviations of 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	1.75	1.56	1.85	1.86	1.89	187
Availability of online help when using my library's electronic resources	1.75	1.55	1.82	1.95	1.92	1,143
Informing me of useful library services	1.89	1.71	1.76	2.00	1.92	1,371
Librarians teaching me how to access or manage information	2.02	1.52	1.56	1.94	1.78	190
An environment that facilitates group study and problem solving	1.85	1.57	1.76	2.10	2.03	809
Ease of use of electronic resources	1.60	1.35	1.54	1.80	1.61	705
Providing help when and where I need it	1.81	1.31	1.44	1.83	1.53	721
Teaching me how to access, evaluate, and use information	1.92	1.67	1.80	1.92	1.90	410
Making me aware of library services	1.81	1.50	1.86	1.96	1.81	479
Subject bibliographies	1.88	1.59	1.57	1.80	1.76	572
Library orientations / instruction sessions	2.24	2.06	1.91	2.28	2.16	2,498
Electronic resources matching my information needs	1.41	1.25	1.48	1.57	1.59	170
Fine and replacement policies that are reasonable	1.81	1.54	2.08	2.44	2.30	1,044
Contribution to the intellectual atmosphere of the campus	1.89	1.64	1.61	1.80	1.71	577
Ready access to computers / Internet / software	1.59	1.38	1.93	2.14	2.18	1,098
Library staff teaching me how to find information	1.94	1.59	1.87	2.03	1.73	711
Using the library for research	1.58	1.60	1.51	1.86	1.76	110
Online tutorials and other learning tools that help me use library resources and services independently	2.01	1.95	1.78	1.91	1.85	376
Creating, editing, and publishing with digital media in appropriate library spaces	1.83	1.66	1.29	1.60	1.77	77
Accessing library resources via the VLE	1.92	1.74	1.71	1.86	1.73	257
Information provided by the Careers Service						0
Convenience of borrowing books	1.62	1.10	1.71	2.07	1.86	438
Support provided by the library to access course materials (textbooks, readings, online resources)	1.64	1.20	1.65	2.15	1.87	227
Ease of use of library-provided electronic books	1.68	1.22	1.59	2.03	1.76	207
An online service that allows me to search easily for journal articles	1.60	1.17	1.54	1.84	1.65	220
Provision of space and facilities that allow me to use my own laptop and/or other mobile device	1.89	1.48	1.94	2.40	2.31	355
Access to photocopying and printing facilities	1.79	1.38	1.87	2.12	1.96	2,364
The main texts and readings I need for my work	1.68	1.30	1.62	1.97	1.76	2,118

Language: Dutch, English (British), English (Dutch), English (Fr)
 Institution Type: College or University
 Consortium: European College and University Libraries
 User Group: Undergraduate

Provision of information skills training	2.08	1.79	1.76	1.97	1.74	319
Helpfulness in dealing with users' IT problems	1.71	1.47	1.76	1.91	1.84	1,975
Availability of subject specialist assistance	1.88	1.68	1.88	1.97	2.04	1,389
Library staff teaching me how to effectively use the electronically available databases, journals, and books	2.00	1.73	1.96	2.18	2.11	1,283
Making me aware of library resources and services	1.75	1.40	1.55	1.85	1.62	1,900
Teaching me how to locate, evaluate, and use information	1.87	1.60	1.74	1.86	1.75	731
Convenient service hours	1.70	1.19	1.90	2.37	2.13	2,861
Ability to navigate library Web pages easily	1.65	1.35	1.60	1.71	1.55	943
A center for intellectual stimulation	1.78	1.27	1.32	1.75	1.32	193
Access to archives, special collections	2.01	1.76	1.76	2.12	2.06	524
Browsing library materials in the stacks	1.82	1.72	1.55	1.89	1.90	270
Convenient access to library collections	1.54	1.10	1.56	1.82	1.68	432
Convenient business hours	1.65	1.35	1.82	2.09	1.93	2,208
Enabling me to find information myself 24 hours a day	1.62	1.16	1.42	1.69	1.40	508
Facilitating self-directed research	1.48	1.27	1.43	1.30	1.49	80
Instruction in library use, when needed	1.53	1.39	1.44	1.73	1.79	573
Librarians providing help that both assists in finding the information needed now, and improves skills useful in future information searches	1.71	1.49	1.63	1.66	1.63	107
Modern equipment	1.73	1.26	1.15	1.87	1.51	213
Providing direction to self-navigate the library	1.62	1.32	1.54	1.64	1.42	278
Resources added to library collections on request	1.53	1.45	1.64	1.94	1.89	76
Timely document delivery / interlibrary loan	1.70	1.65	1.72	1.89	1.61	123
Space for students to study and work in groups	1.87	1.51	1.86	1.93	1.88	283
Adequate hours of service	1.70	1.33	1.72	2.08	1.84	1,238
Providing me with the information skills I need for my work or study	1.58	1.29	1.42	1.68	1.43	284
The 24 by 7 live chat service provides information assistance when and where I need it	2.06	1.86	1.55	2.04	1.66	289
Availability of timely help when using my library's electronic resources	1.53	1.38	1.56	1.77	1.68	165
An online catalog that is user-friendly for finding materials	1.71	1.41	1.62	1.95	1.67	221

4.5 General Satisfaction Questions Summary for Undergraduate

This table displays the 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 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.	7.33	1.49	19,266
In general, I am satisfied with library support for my learning, research, and/or teaching needs.	7.00	1.50	19,131
How would you rate the overall quality of the service provided by the library?	7.12	1.28	36,258

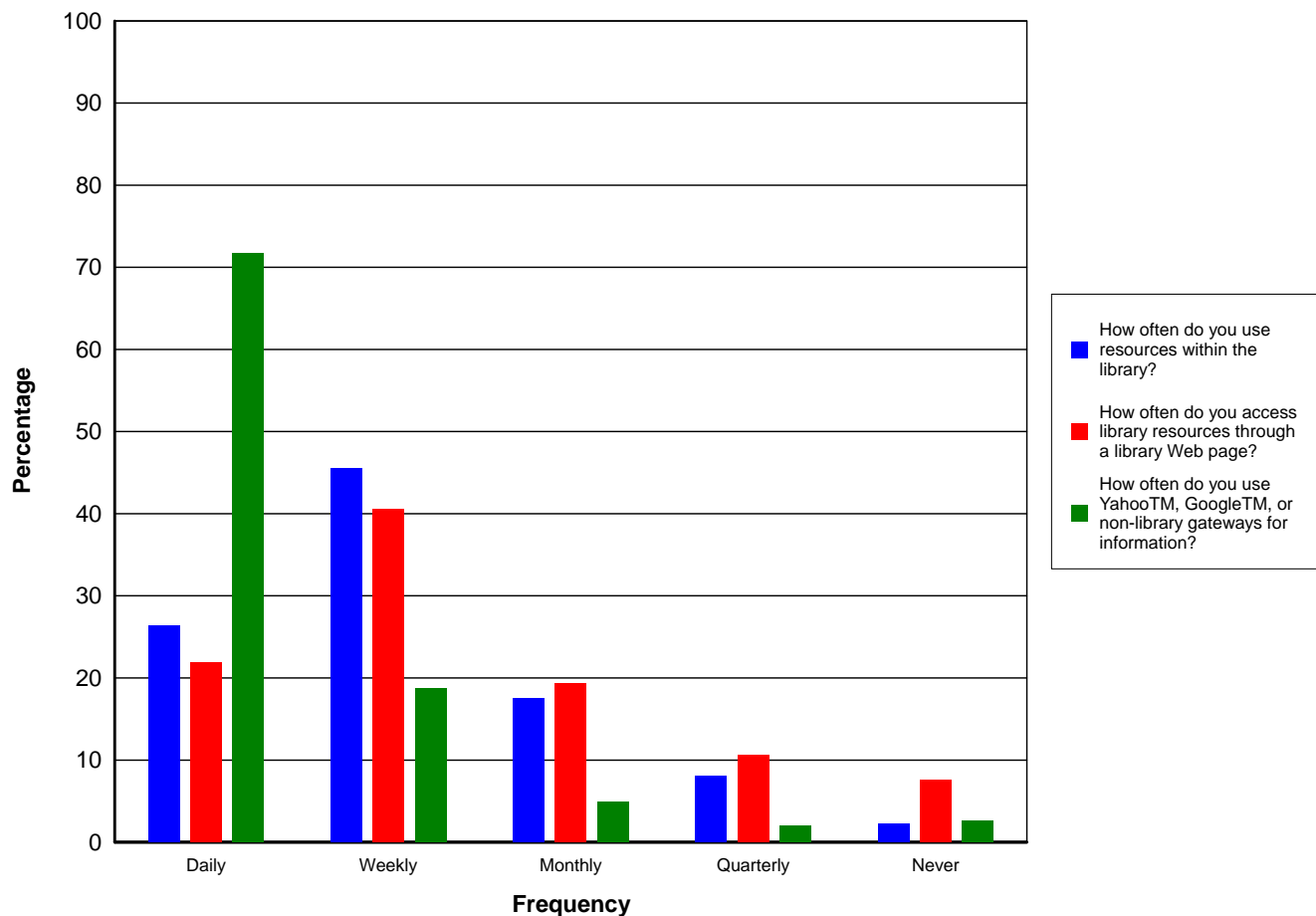
4.6 Information Literacy Outcomes Questions Summary for Undergraduate

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 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.	6.04	1.76	14,497
The library aids my advancement in my academic discipline or work.	6.99	1.52	16,510
The library enables me to be more efficient in my academic pursuits or work.	7.04	1.54	16,894
The library helps me distinguish between trustworthy and untrustworthy information.	6.18	1.76	16,767
The library provides me with the information skills I need in my work or study.	6.79	1.53	14,270

4.7 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 within the library?	9,585 26.43%	16,533 45.59%	6,378 17.59%	2,945 8.12%	827 2.28%	36,268 100.00%
How often do you access library resources through a library Web page?	7,944 21.91%	14,705 40.55%	7,025 19.37%	3,841 10.59%	2,747 7.58%	36,262 100.00%
How often do you use Yahoo™, Google™, or non-library gateways for information?	26,016 71.75%	6,806 18.77%	1,777 4.90%	716 1.97%	945 2.61%	36,260 100.00%

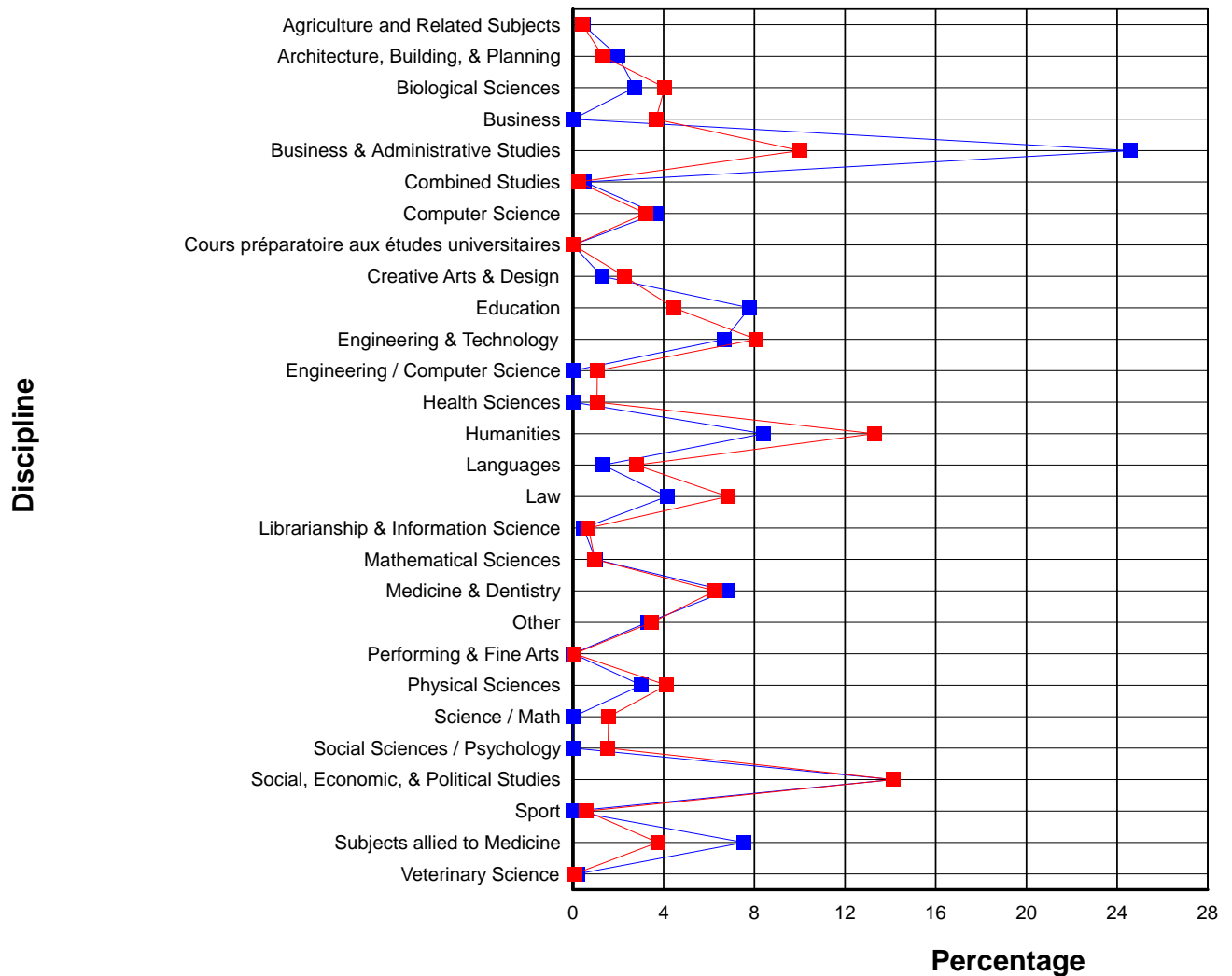
5 Summary for Postgraduate

5.1 Demographic Summary for Postgraduate

5.1.1 Population and Respondent Profiles by Standard Discipline

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

This section shows survey respondents broken down based on the LibQUAL+® standard discipline categories. 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 the general population (N) and for survey respondents (n).



- Respondent Profile by Discipline
- Population Profile by Discipline

Language: Dutch, English (British), English (Dutch), English (Fr)
 Institution Type: College or University
 Consortium: European College and University Libraries
 User Group: Postgraduate

Discipline	Population N	Population %	Respondents n	Respondents %	%N - %n
Agriculture and Related Subjects	346	0.44	71	0.43	0.01
Architecture, Building, & Planning	1,565	2.00	218	1.32	0.68
Biological Sciences	2,130	2.72	670	4.05	-1.33
Business	0	0.00	605	3.66	-3.66
Business & Administrative Studies	19,291	24.60	1,657	10.02	14.58
Combined Studies	394	0.50	40	0.24	0.26
Computer Science	2,883	3.68	530	3.20	0.47
Cours préparatoire aux études universitaires	0	0.00	3	0.02	-0.02
Creative Arts & Design	1,003	1.28	375	2.27	-0.99
Education	6,113	7.79	738	4.46	3.33
Engineering & Technology	5,237	6.68	1,337	8.08	-1.40
Engineering / Computer Science	0	0.00	178	1.08	-1.08
Health Sciences	0	0.00	176	1.06	-1.06
Humanities	6,592	8.41	2,197	13.28	-4.87
Languages	1,042	1.33	463	2.80	-1.47
Law	3,252	4.15	1,130	6.83	-2.68
Librarianship & Information Science	369	0.47	113	0.68	-0.21
Mathematical Sciences	779	0.99	160	0.97	0.03
Medicine & Dentistry	5,319	6.78	1,038	6.27	0.51
Other	2,579	3.29	576	3.48	-0.19
Performing & Fine Arts	0	0.00	10	0.06	-0.06
Physical Sciences	2,366	3.02	684	4.13	-1.12
Science / Math	0	0.00	259	1.57	-1.57
Social Sciences / Psychology	0	0.00	256	1.55	-1.55
Social, Economic, & Political Studies	11,082	14.13	2,333	14.10	0.03
Sport	0	0.00	96	0.58	-0.58
Subjects allied to Medicine	5,922	7.55	618	3.74	3.82
Veterinary Science	163	0.21	13	0.08	0.13
Total:	78,427	100.00	16,544	100.00	0.00

Language: Dutch, English (British), English (Dutch), English (Fr)
Institution Type: College or University
Consortium: European College and University Libraries
User Group: Postgraduate

5.1.2 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	24	0.15
18 - 22	3,916	23.67
23 - 30	9,141	55.25
31 - 45	2,666	16.11
46 - 65	736	4.45
Over 65	62	0.37
Total:	16,545	100.00

5.1.3 Respondent Profile 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 %
Female	9,338	55.19	9,729	58.80
Male	7,583	44.81	6,817	41.20
Total:	16,921	100.00	16,546	100.00

5.1.4 Respondent Profile by Full or part-time student?

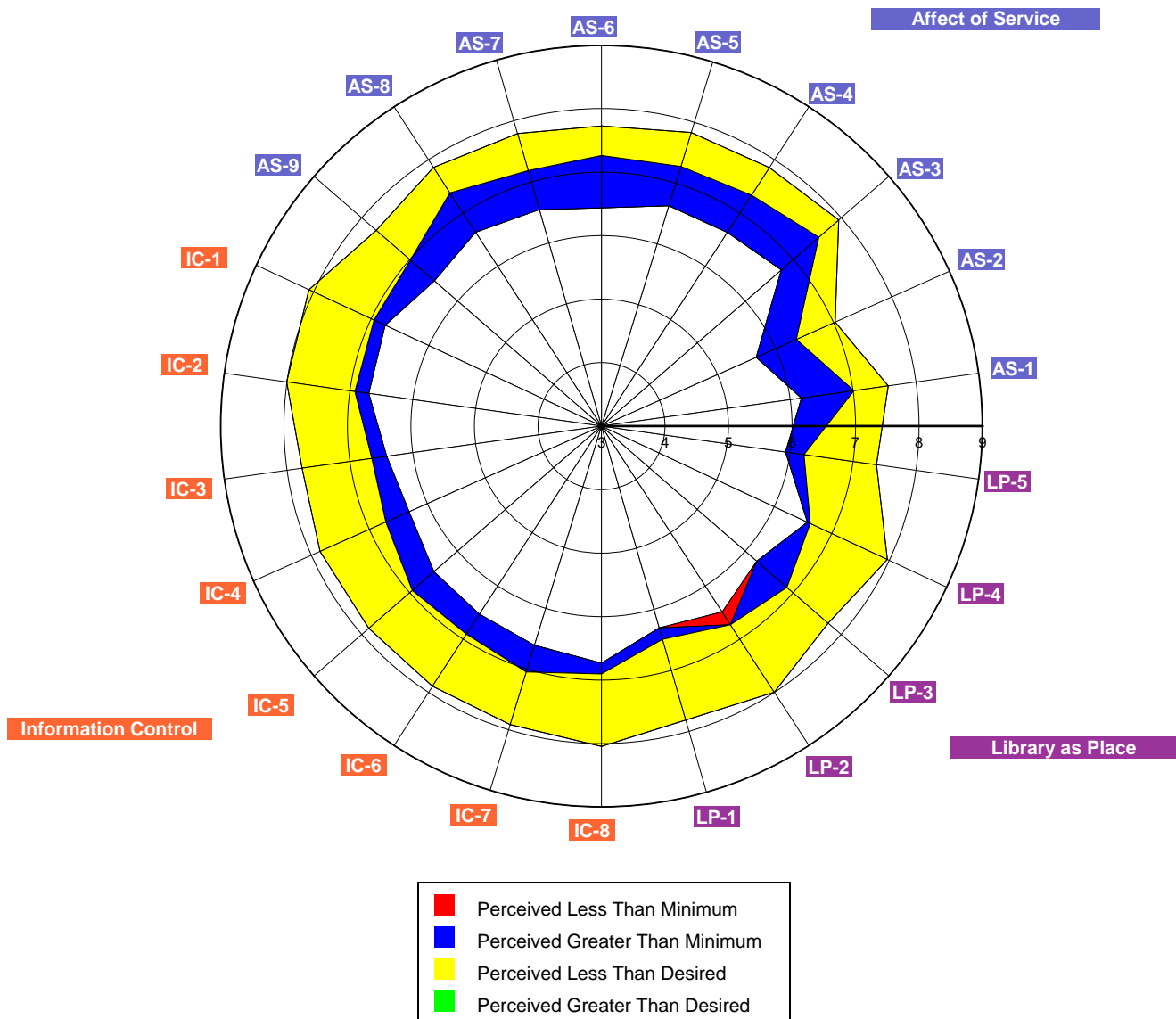
Full or part-time student?	Respondents n	Respondents %
Full-time	6,752	79.36
Part-time	1,579	18.56
Does not apply / NA	177	2.08
Total:	8,508	100.00

5.2 Core Questions Summary for Postgraduate

This radar chart shows the 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, Information Control, and Library as Place.

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 or service superiority) are shaded in blue, yellow, green, and red.

The following two 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: Dutch, English (British), English (Dutch), English (Fr)
 Institution Type: College or University
 Consortium: European College and University Libraries
 User Group: Postgraduate

ID	Question Text	Minimum Mean	Desired Mean	Perceived Mean	Adequacy Mean	Superiority Mean	n
Affect of Service							
AS-1	Library staff who instill confidence in users	6.18	7.56	7.01	0.83	-0.55	4,383
AS-2	Giving users individual attention	5.67	7.03	6.36	0.69	-0.67	4,661
AS-3	Library staff who are consistently courteous	6.75	7.95	7.54	0.78	-0.41	4,647
AS-4	Readiness to respond to users' enquiries	6.64	7.85	7.34	0.70	-0.52	4,510
AS-5	Library staff who have the knowledge to answer user questions	6.63	7.84	7.28	0.65	-0.56	4,711
AS-6	Library staff who deal with users in a caring fashion	6.44	7.73	7.26	0.82	-0.46	15,932
AS-7	Library staff who understand the needs of their users	6.55	7.79	7.19	0.64	-0.61	4,666
AS-8	Willingness to help users	6.64	7.86	7.38	0.74	-0.48	4,431
AS-9	Dependability in handling users' service problems	6.49	7.70	6.99	0.50	-0.71	4,098
Information Control							
IC-1	Making electronic resources accessible from my home or office	6.76	8.08	6.95	0.19	-1.13	4,769
IC-2	A library Web site enabling me to locate information on my own	6.70	8.00	6.92	0.22	-1.08	5,707
IC-3	The printed library materials I need for my work	6.42	7.76	6.65	0.24	-1.11	4,930
IC-4	The electronic information resources I need	6.32	7.85	6.72	0.40	-1.13	16,138
IC-5	Modern equipment that lets me easily access needed information	6.50	7.85	6.95	0.45	-0.91	5,603
IC-6	Easy-to-use access tools that allow me to find things on my own	6.53	7.88	6.91	0.37	-0.98	5,681
IC-7	Making information easily accessible for independent use	6.61	7.91	7.05	0.44	-0.87	5,248
IC-8	Print and/or electronic journal collections I require for my work	6.73	8.04	6.90	0.17	-1.14	4,663
Library as Place							
LP-1	Library space that inspires study and learning	6.30	7.81	6.49	0.19	-1.32	15,895
LP-2	Quiet space for individual work	6.73	8.00	6.49	-0.24	-1.51	4,664
LP-3	A comfortable and inviting location	6.24	7.73	6.87	0.63	-0.86	4,746
LP-4	A haven for study, learning, or research	6.58	7.97	6.63	0.05	-1.34	4,634
LP-5	Space for group learning and group study	5.93	7.37	6.22	0.29	-1.15	4,406
Overall:		6.44	7.79	6.91	0.47	-0.88	16,549

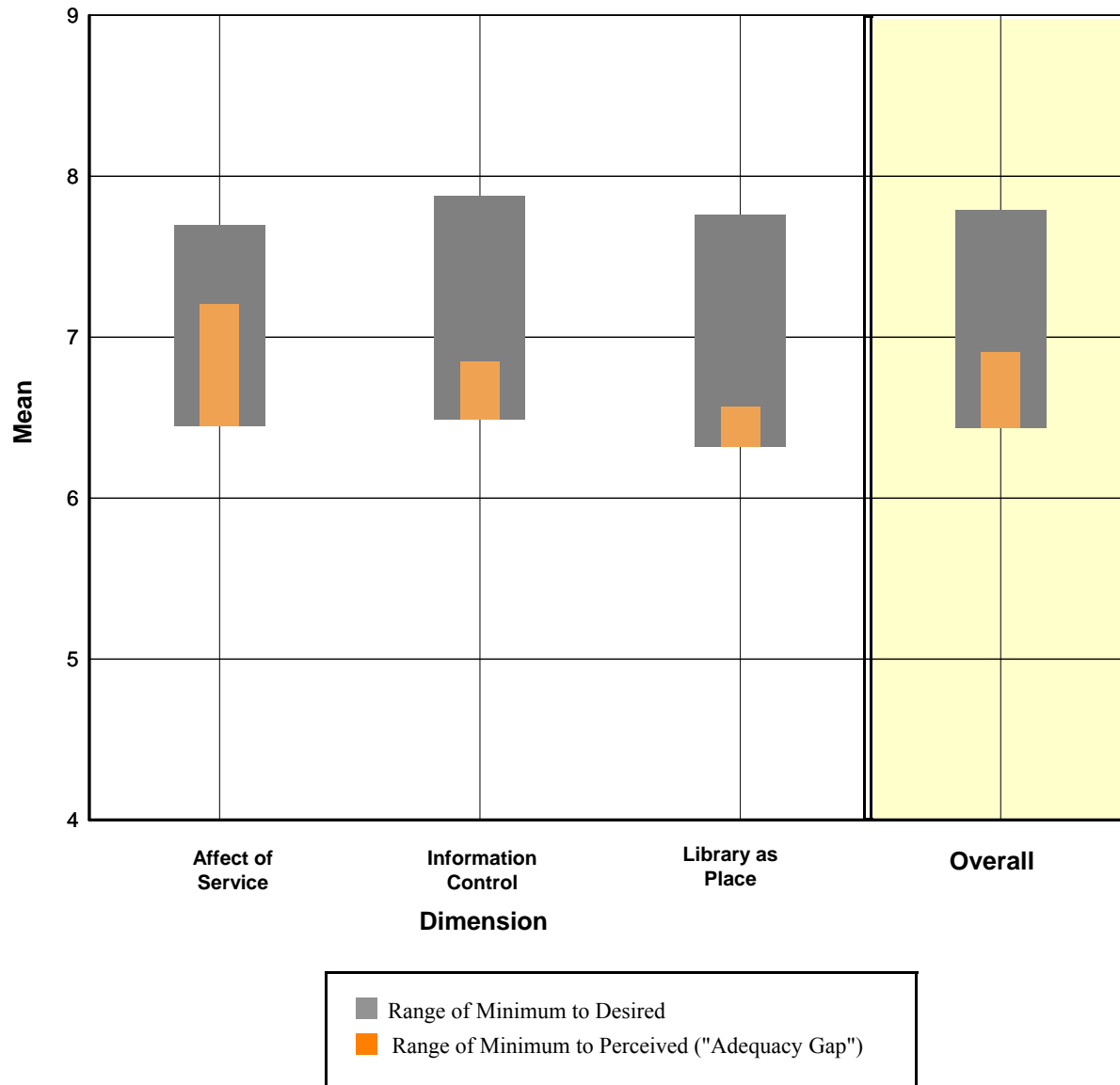
Language: Dutch, English (British), English (Dutch), English (Fr)
Institution Type: College or University
Consortium: European College and University Libraries
User Group: Postgraduate

ID	Question Text	Minimum SD	Desired SD	Perceived SD	Adequacy SD	Superiority SD	n
Affect of Service							
AS-1	Library staff who instill confidence in users	1.77	1.42	1.61	1.83	1.66	4,383
AS-2	Giving users individual attention	1.88	1.66	1.78	1.87	1.80	4,661
AS-3	Library staff who are consistently courteous	1.75	1.27	1.54	1.88	1.60	4,647
AS-4	Readiness to respond to users' enquiries	1.61	1.25	1.52	1.73	1.51	4,510
AS-5	Library staff who have the knowledge to answer user questions	1.67	1.32	1.54	1.71	1.53	4,711
AS-6	Library staff who deal with users in a caring fashion	1.73	1.35	1.57	1.82	1.58	15,932
AS-7	Library staff who understand the needs of their users	1.68	1.30	1.54	1.77	1.56	4,666
AS-8	Willingness to help users	1.69	1.33	1.53	1.79	1.56	4,431
AS-9	Dependability in handling users' service problems	1.64	1.38	1.62	1.78	1.65	4,098
Information Control							
IC-1	Making electronic resources accessible from my home or office	1.74	1.28	1.78	2.05	1.86	4,769
IC-2	A library Web site enabling me to locate information on my own	1.63	1.25	1.65	1.87	1.74	5,707
IC-3	The printed library materials I need for my work	1.69	1.44	1.66	1.98	1.87	4,930
IC-4	The electronic information resources I need	1.63	1.33	1.58	1.85	1.74	16,138
IC-5	Modern equipment that lets me easily access needed information	1.59	1.26	1.57	1.82	1.68	5,603
IC-6	Easy-to-use access tools that allow me to find things on my own	1.60	1.25	1.54	1.78	1.61	5,681
IC-7	Making information easily accessible for independent use	1.59	1.24	1.47	1.77	1.59	5,248
IC-8	Print and/or electronic journal collections I require for my work	1.63	1.30	1.61	1.93	1.77	4,663
Library as Place							
LP-1	Library space that inspires study and learning	1.74	1.49	1.88	2.21	2.17	15,895
LP-2	Quiet space for individual work	1.79	1.46	2.01	2.41	2.27	4,664
LP-3	A comfortable and inviting location	1.70	1.39	1.71	2.11	1.93	4,746
LP-4	A haven for study, learning, or research	1.69	1.38	1.82	2.19	2.06	4,634
LP-5	Space for group learning and group study	1.92	1.74	1.99	2.45	2.40	4,406
Overall:		1.30	0.97	1.15	1.38	1.21	16,549

Language: Dutch, English (British), English (Dutch), English (Fr)
Institution Type: College or University
Consortium: European College and University Libraries
User Group: Postgraduate

5.3 Core Question Dimensions Summary for Postgraduate

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.



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	6.45	7.70	7.20	0.75	-0.50	16,337
Information Control	6.49	7.88	6.84	0.36	-1.03	16,522
Library as Place	6.32	7.76	6.57	0.25	-1.19	16,125
Overall	6.44	7.79	6.91	0.47	-0.88	16,549

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	1.53	1.18	1.37	1.55	1.35	16,337
Information Control	1.39	1.07	1.29	1.52	1.38	16,522
Library as Place	1.60	1.34	1.67	1.99	1.91	16,125
Overall	1.30	0.97	1.15	1.38	1.21	16,549

5.4 Local Question Summary for Postgraduate

This table shows mean scores of 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	6.51	7.63	6.75	0.24	-0.88	59
Availability of online help when using my library's electronic resources	6.11	7.64	6.21	0.11	-1.42	466
Informing me of useful library services	5.74	6.94	6.50	0.77	-0.44	284
Librarians teaching me how to access or manage information	6.32	7.47	7.47	1.15	-0.01	137
An environment that facilitates group study and problem solving	6.13	7.37	6.76	0.63	-0.61	231
Ease of use of electronic resources	6.54	7.77	6.91	0.37	-0.87	491
Providing help when and where I need it	6.76	7.99	7.26	0.50	-0.73	176
Teaching me how to access, evaluate, and use information	5.76	7.07	6.64	0.88	-0.43	167
Making me aware of library services	5.99	7.12	6.51	0.52	-0.61	165
Subject bibliographies	6.54	7.93	6.76	0.22	-1.17	153
Library orientations / instruction sessions	5.41	6.72	6.41	1.00	-0.31	968
Electronic resources matching my information needs	6.16	7.50	6.77	0.61	-0.73	70
Fine and replacement policies that are reasonable	6.35	7.55	6.65	0.30	-0.90	378
Contribution to the intellectual atmosphere of the campus	6.64	7.69	6.61	-0.04	-1.09	188
Ready access to computers / Internet / software	6.42	7.75	6.39	-0.03	-1.36	675
Library staff teaching me how to find information	6.31	7.33	6.98	0.67	-0.35	212
Using the library for research	7.13	8.44	7.02	-0.11	-1.42	45
Online tutorials and other learning tools that help me use library resources and services independently	6.11	7.23	6.81	0.70	-0.43	159
Creating, editing, and publishing with digital media in appropriate library spaces	6.24	7.14	6.69	0.45	-0.45	42
Accessing library resources via the VLE	6.49	7.73	7.13	0.64	-0.60	163
Information provided by the Careers Service	6.04	7.32	6.88	0.84	-0.43	76
Convenience of borrowing books	6.69	8.31	7.12	0.43	-1.18	428
Support provided by the library to access course materials (textbooks, readings, online resources)	6.98	8.09	7.33	0.35	-0.77	98
Ease of use of library-provided electronic books	6.88	8.07	6.82	-0.06	-1.25	107
An online service that allows me to search easily for journal articles	7.40	8.48	7.19	-0.21	-1.29	112
Provision of space and facilities that allow me to use my own laptop and/or other mobile device	6.45	7.72	6.92	0.47	-0.80	182
Access to photocopying and printing facilities	6.58	7.93	6.57	-0.01	-1.36	1,474
The main texts and readings I need for my work	7.15	8.25	6.88	-0.26	-1.36	953

Language: Dutch, English (British), English (Dutch), English (Fr
 Institution Type: College or University
 Consortium: European College and University Libraries
 User Group: Postgraduate

Provision of information skills training	5.64	6.97	6.51	0.87	-0.46	258
Helpfulness in dealing with users' IT problems	6.67	7.88	6.88	0.21	-1.00	655
Availability of subject specialist assistance	6.16	7.52	6.67	0.51	-0.85	775
Library staff teaching me how to effectively use the electronically available databases, journals, and books	6.07	7.39	6.62	0.55	-0.76	510
Making me aware of library resources and services	5.70	7.21	6.59	0.90	-0.62	1,106
Teaching me how to locate, evaluate, and use information	6.23	7.47	6.97	0.74	-0.50	386
Convenient service hours	6.66	7.93	7.06	0.40	-0.87	897
Ability to navigate library Web pages easily	6.42	7.63	6.89	0.46	-0.74	439
A center for intellectual stimulation	6.40	7.81	7.18	0.78	-0.63	130
Access to archives, special collections	6.29	7.28	6.81	0.51	-0.47	129
Browsing library materials in the stacks	6.65	7.68	6.39	-0.26	-1.29	66
Convenient access to library collections	6.38	7.98	6.53	0.16	-1.45	429
Convenient business hours	6.63	8.11	6.87	0.24	-1.23	1,476
Enabling me to find information myself 24 hours a day	6.97	8.10	7.74	0.77	-0.35	239
Facilitating self-directed research	7.01	8.17	7.64	0.63	-0.53	81
Instruction in library use, when needed	6.03	7.18	6.98	0.95	-0.20	61
Librarians providing help that both assists in finding the information needed now, and improves skills useful in future information searches	6.86	7.86	7.14	0.27	-0.73	44
Modern equipment	6.20	7.56	7.41	1.21	-0.15	112
Providing direction to self-navigate the library	6.50	7.68	7.32	0.82	-0.36	134
Resources added to library collections on request	5.34	7.10	6.19	0.85	-0.90	62
Timely document delivery / interlibrary loan	6.52	7.73	7.05	0.52	-0.68	88
Space for students to study and work in groups	6.13	7.14	7.45	1.32	0.31	85
Adequate hours of service	6.82	7.88	7.09	0.27	-0.79	332
Providing me with the information skills I need for my work or study	6.73	7.74	7.04	0.31	-0.70	70
The 24 by 7 live chat service provides information assistance when and where I need it	6.24	6.80	7.42	1.18	0.62	55
Availability of timely help when using my library's electronic resources	6.14	7.42	6.57	0.43	-0.85	81
An online catalog that is user-friendly for finding materials	6.34	7.83	6.77	0.43	-1.07	121

This table displays the standard deviations of 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	1.78	1.29	2.09	1.96	2.05	59
Availability of online help when using my library's electronic resources	1.69	1.45	1.75	1.93	1.91	466
Informing me of useful library services	2.10	1.92	1.77	2.27	2.12	284
Librarians teaching me how to access or manage information	1.91	1.66	1.39	1.81	1.63	137
An environment that facilitates group study and problem solving	2.12	1.82	1.73	2.04	2.02	231
Ease of use of electronic resources	1.55	1.32	1.62	1.90	1.79	491
Providing help when and where I need it	1.65	1.31	1.59	1.91	1.75	176
Teaching me how to access, evaluate, and use information	1.98	1.82	1.75	1.75	1.77	167
Making me aware of library services	1.78	1.73	1.93	1.97	1.96	165
Subject bibliographies	1.56	1.22	1.48	1.79	1.59	153
Library orientations / instruction sessions	2.22	2.05	1.99	2.30	2.16	968
Electronic resources matching my information needs	1.59	1.21	1.42	1.91	1.75	70
Fine and replacement policies that are reasonable	1.78	1.57	1.85	2.08	1.98	378
Contribution to the intellectual atmosphere of the campus	1.77	1.34	1.80	1.91	1.79	188
Ready access to computers / Internet / software	1.52	1.29	1.84	2.20	2.06	675
Library staff teaching me how to find information	1.94	1.59	1.86	1.76	1.71	212
Using the library for research	1.58	1.29	2.01	2.27	2.22	45
Online tutorials and other learning tools that help me use library resources and services independently	1.95	1.67	1.76	2.16	1.74	159
Creating, editing, and publishing with digital media in appropriate library spaces	2.10	1.77	1.52	2.12	1.82	42
Accessing library resources via the VLE	1.80	1.53	1.62	1.93	1.59	163
Information provided by the Careers Service	2.04	1.56	1.67	2.10	2.14	76
Convenience of borrowing books	1.54	1.05	1.77	2.20	1.98	428
Support provided by the library to access course materials (textbooks, readings, online resources)	1.50	1.37	1.33	1.64	1.67	98
Ease of use of library-provided electronic books	1.52	1.17	1.57	1.84	1.67	107
An online service that allows me to search easily for journal articles	1.63	0.90	1.82	2.02	1.94	112
Provision of space and facilities that allow me to use my own laptop and/or other mobile device	1.92	1.62	1.75	2.07	1.91	182
Access to photocopying and printing facilities	1.75	1.37	1.99	2.28	2.14	1,474
The main texts and readings I need for my work	1.61	1.21	1.67	1.89	1.81	953

Language: Dutch, English (British), English (Dutch), English (Fr)
 Institution Type: College or University
 Consortium: European College and University Libraries
 User Group: Postgraduate

Provision of information skills training	2.08	1.82	1.68	2.12	2.00	258
Helpfulness in dealing with users' IT problems	1.72	1.33	1.74	1.92	1.75	655
Availability of subject specialist assistance	1.97	1.59	1.82	2.06	1.99	775
Library staff teaching me how to effectively use the electronically available databases, journals, and books	2.01	1.70	1.86	2.07	1.89	510
Making me aware of library resources and services	1.78	1.54	1.65	1.92	1.83	1,106
Teaching me how to locate, evaluate, and use information	1.78	1.52	1.76	1.81	1.78	386
Convenient service hours	1.70	1.34	1.78	2.15	1.98	897
Ability to navigate library Web pages easily	1.57	1.27	1.59	1.88	1.71	439
A center for intellectual stimulation	1.66	1.26	1.50	1.64	1.48	130
Access to archives, special collections	1.83	1.75	1.66	1.95	2.05	129
Browsing library materials in the stacks	1.86	1.67	1.67	2.00	1.86	66
Convenient access to library collections	1.52	1.25	1.73	2.08	1.90	429
Convenient business hours	1.57	1.21	1.89	2.25	2.07	1,476
Enabling me to find information myself 24 hours a day	1.74	1.29	1.37	1.79	1.49	239
Facilitating self-directed research	1.62	1.12	1.29	1.68	1.23	81
Instruction in library use, when needed	1.72	1.82	1.36	1.71	1.42	61
Librarians providing help that both assists in finding the information needed now, and improves skills useful in future information searches	1.58	1.17	1.46	1.55	1.37	44
Modern equipment	1.81	1.49	1.41	1.76	1.57	112
Providing direction to self-navigate the library	1.51	1.21	1.50	1.81	1.58	134
Resources added to library collections on request	1.37	1.67	1.56	1.75	1.62	62
Timely document delivery / interlibrary loan	1.55	1.34	1.60	1.60	1.70	88
Space for students to study and work in groups	1.67	1.37	1.38	1.99	1.60	85
Adequate hours of service	1.67	1.39	1.84	2.27	2.03	332
Providing me with the information skills I need for my work or study	1.87	1.57	1.22	1.85	1.52	70
The 24 by 7 live chat service provides information assistance when and where I need it	2.35	2.24	1.83	1.98	1.91	55
Availability of timely help when using my library's electronic resources	1.49	1.33	1.72	1.40	1.64	81
An online catalog that is user-friendly for finding materials	1.88	1.68	2.00	1.86	1.73	121

5.5 General Satisfaction Questions Summary for Postgraduate

This table displays the 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 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.	7.31	1.53	8,713
In general, I am satisfied with library support for my learning, research, and/or teaching needs.	6.90	1.60	8,828
How would you rate the overall quality of the service provided by the library?	7.06	1.35	16,544

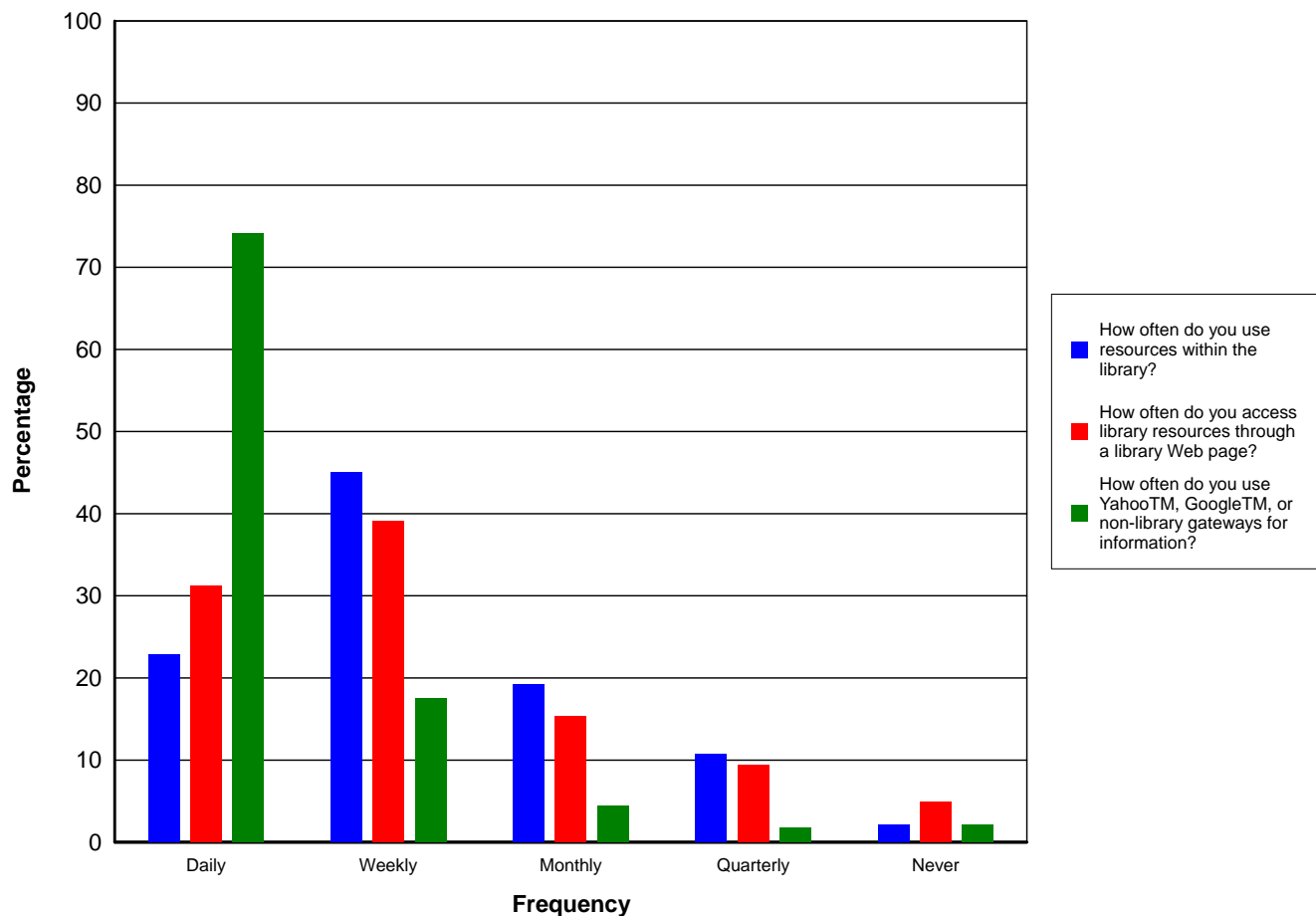
5.6 Information Literacy Outcomes Questions Summary for Postgraduate

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 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.	5.95	1.89	6,719
The library aids my advancement in my academic discipline or work.	6.96	1.59	7,520
The library enables me to be more efficient in my academic pursuits or work.	6.90	1.64	7,586
The library helps me distinguish between trustworthy and untrustworthy information.	5.97	1.81	7,595
The library provides me with the information skills I need in my work or study.	6.60	1.68	6,659

5.7 Library Use Summary for Postgraduate

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 within the library?	3,789	7,461	3,175	1,776	345	16,546
	22.90%	45.09%	19.19%	10.73%	2.09%	100.00%
How often do you access library resources through a library Web page?	5,162	6,461	2,540	1,563	820	16,546
	31.20%	39.05%	15.35%	9.45%	4.96%	100.00%
How often do you use Yahoo™, Google™, or non-library gateways for information?	12,266	2,897	740	287	355	16,545
	74.14%	17.51%	4.47%	1.73%	2.15%	100.00%

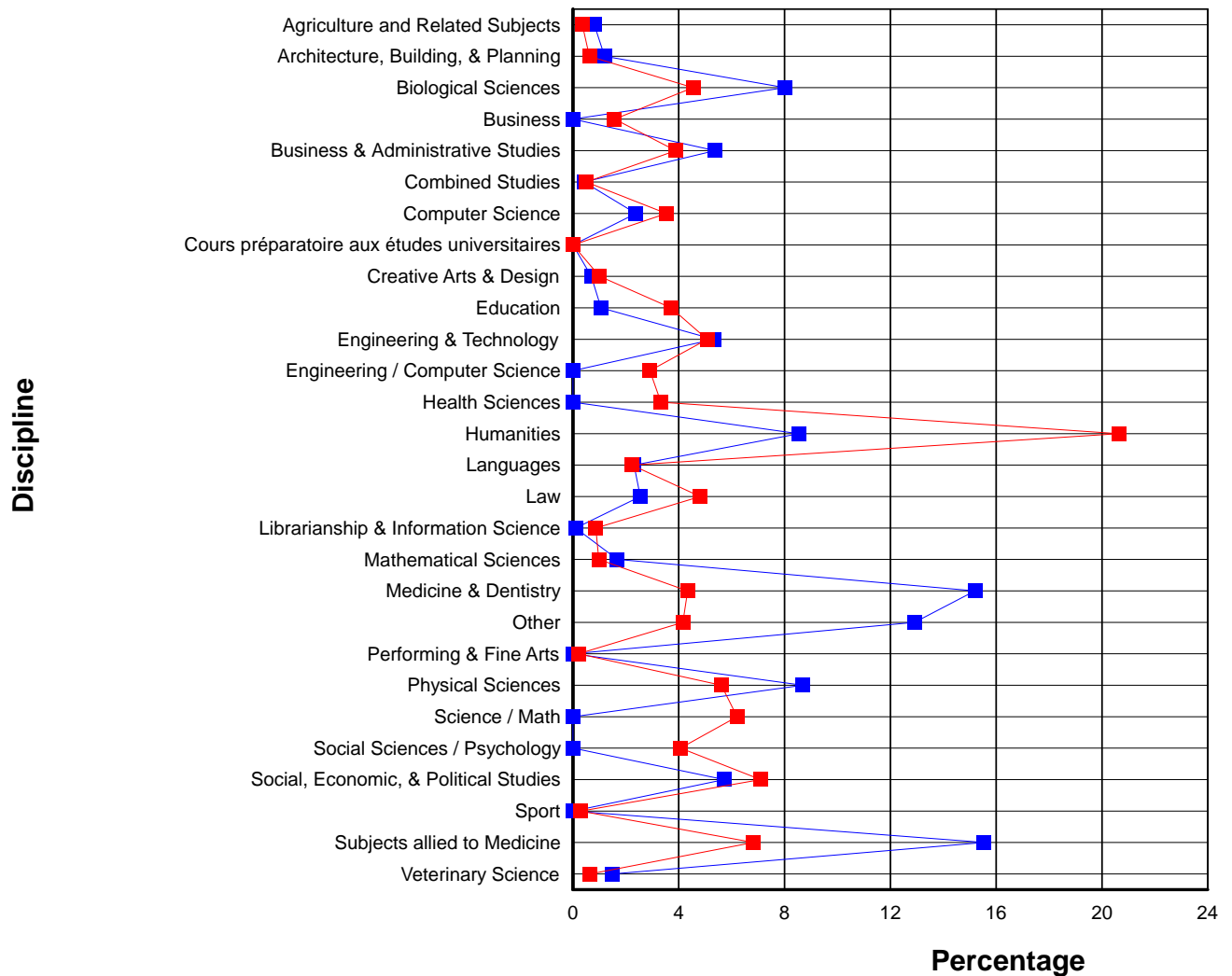
6 Summary for Academic Staff

6.1 Demographic Summary for Academic Staff

6.1.1 Population and Respondent Profiles by Standard Discipline

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

This section shows survey respondents broken down based on the LibQUAL+® standard discipline categories. 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 the general population (N) and for survey respondents (n).



- Respondent Profile by Discipline
- Population Profile by Discipline

Language: Dutch, English (British), English (Dutch), English (Fr)
 Institution Type: College or University
 Consortium: European College and University Libraries
 User Group: Academic Staff

Discipline	Population N	Population %	Respondents n	Respondents %	%N - %n
Agriculture and Related Subjects	170	0.81	12	0.36	0.45
Architecture, Building, & Planning	253	1.20	21	0.62	0.57
Biological Sciences	1,692	8.01	153	4.54	3.47
Business	0	0.00	53	1.57	-1.57
Business & Administrative Studies	1,135	5.38	131	3.89	1.49
Combined Studies	88	0.42	17	0.50	-0.09
Computer Science	503	2.38	119	3.53	-1.15
Cours préparatoire aux études universitaires	0	0.00	0	0.00	0.00
Creative Arts & Design	147	0.70	34	1.01	-0.31
Education	224	1.06	125	3.71	-2.65
Engineering & Technology	1,124	5.32	171	5.08	0.25
Engineering / Computer Science	0	0.00	98	2.91	-2.91
Health Sciences	0	0.00	112	3.32	-3.32
Humanities	1,802	8.54	695	20.63	-12.09
Languages	488	2.31	75	2.23	0.09
Law	538	2.55	162	4.81	-2.26
Librarianship & Information Science	22	0.10	29	0.86	-0.76
Mathematical Sciences	354	1.68	33	0.98	0.70
Medicine & Dentistry	3,208	15.19	146	4.33	10.86
Other	2,726	12.91	140	4.16	8.76
Performing & Fine Arts	0	0.00	7	0.21	-0.21
Physical Sciences	1,834	8.69	189	5.61	3.08
Science / Math	0	0.00	209	6.20	-6.20
Social Sciences / Psychology	0	0.00	137	4.07	-4.07
Social, Economic, & Political Studies	1,207	5.72	239	7.09	-1.38
Sport	0	0.00	10	0.30	-0.30
Subjects allied to Medicine	3,282	15.54	230	6.83	8.72
Veterinary Science	316	1.50	22	0.65	0.84
Total:	21,113	100.00	3,369	100.00	0.00

Language: Dutch, English (British), English (Dutch), English (Fr)
Institution Type: College or University
Consortium: European College and University Libraries
User Group: Academic Staff

6.1.2 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	7	0.21
18 - 22	29	0.86
23 - 30	363	10.78
31 - 45	1,458	43.29
46 - 65	1,350	40.08
Over 65	161	4.78
Total:	3,368	100.00

6.1.3 Respondent Profile 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 %
Female	1,814	37.40	1,576	46.84
Male	3,036	62.60	1,789	53.16
Total:	4,850	100.00	3,365	100.00

6.1.4 Respondent Profile by Full or part-time student?

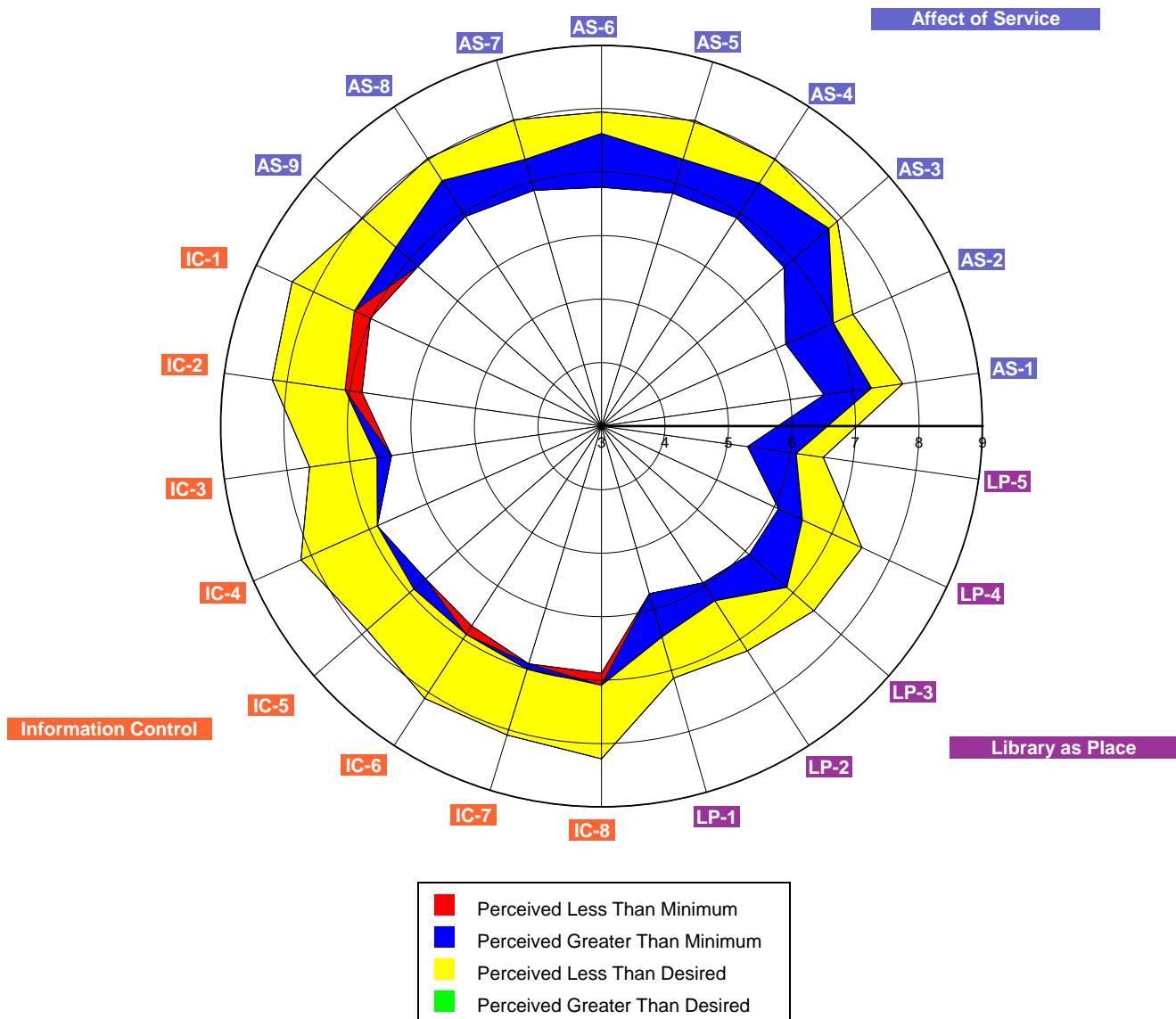
Full or part-time student?	Respondents n	Respondents %
Full-time	115	6.71
Part-time	110	6.42
Does not apply / NA	1,489	86.87
Total:	1,714	100.00

6.2 Core Questions Summary for Academic Staff

This radar chart shows the 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, Information Control, and Library as Place.

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 or service superiority) are shaded in blue, yellow, green, and red.

The following two 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.)

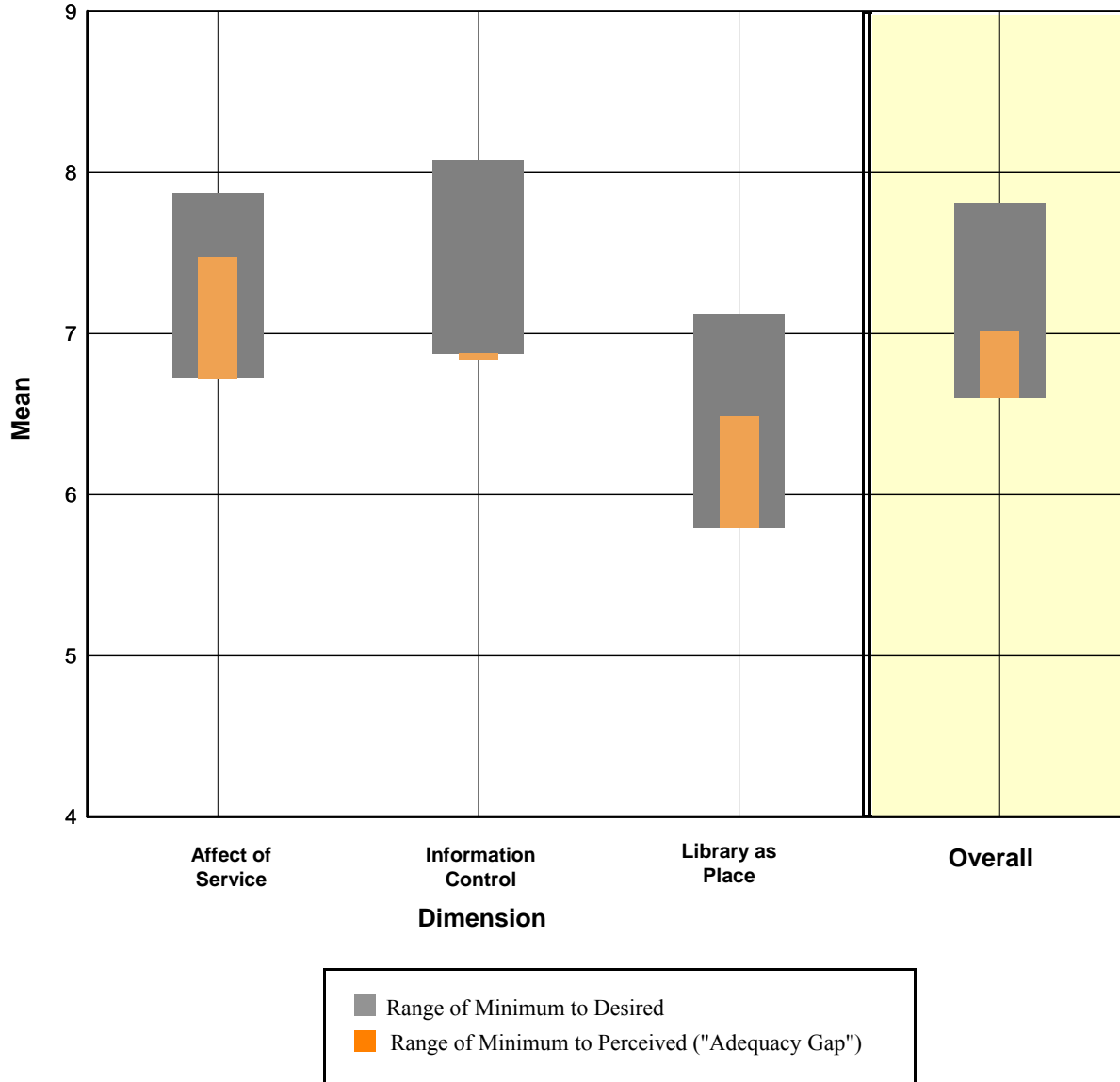


ID	Question Text	Minimum Mean	Desired Mean	Perceived Mean	Adequacy Mean	Superiority Mean	n
Affect of Service							
AS-1	Library staff who instill confidence in users	6.54	7.79	7.30	0.75	-0.49	852
AS-2	Giving users individual attention	6.18	7.33	7.00	0.82	-0.34	906
AS-3	Library staff who are consistently courteous	6.81	7.92	7.75	0.93	-0.17	907
AS-4	Readiness to respond to users' enquiries	6.91	8.02	7.56	0.65	-0.46	891
AS-5	Library staff who have the knowledge to answer user questions	6.84	8.03	7.40	0.56	-0.64	964
AS-6	Library staff who deal with users in a caring fashion	6.76	7.95	7.61	0.85	-0.34	3,232
AS-7	Library staff who understand the needs of their users	6.86	8.02	7.37	0.51	-0.65	938
AS-8	Willingness to help users	6.94	8.03	7.61	0.67	-0.42	891
AS-9	Dependability in handling users' service problems	6.83	7.98	7.29	0.46	-0.69	751
Information Control							
IC-1	Making electronic resources accessible from my home or office	7.29	8.37	7.02	-0.28	-1.36	974
IC-2	A library Web site enabling me to locate information on my own	7.08	8.23	6.81	-0.27	-1.43	1,166
IC-3	The printed library materials I need for my work	6.34	7.64	6.57	0.23	-1.07	929
IC-4	The electronic information resources I need	6.87	8.18	6.86	0.00	-1.32	3,290
IC-5	Modern equipment that lets me easily access needed information	6.67	7.89	6.91	0.25	-0.98	1,044
IC-6	Easy-to-use access tools that allow me to find things on my own	6.91	8.11	6.75	-0.16	-1.36	1,109
IC-7	Making information easily accessible for independent use	6.92	8.09	7.00	0.09	-1.08	1,040
IC-8	Print and/or electronic journal collections I require for my work	7.08	8.24	6.89	-0.19	-1.35	915
Library as Place							
LP-1	Library space that inspires study and learning	5.74	7.13	6.45	0.71	-0.67	2,768
LP-2	Quiet space for individual work	5.94	7.22	6.28	0.34	-0.94	770
LP-3	A comfortable and inviting location	6.08	7.43	6.87	0.79	-0.56	863
LP-4	A haven for study, learning, or research	6.08	7.52	6.49	0.41	-1.03	770
LP-5	Space for group learning and group study	5.32	6.53	6.10	0.77	-0.43	597
Overall:		6.60	7.81	7.02	0.42	-0.79	3,373

ID	Question Text	Minimum SD	Desired SD	Perceived SD	Adequacy SD	Superiority SD	n
Affect of Service							
AS-1	Library staff who instill confidence in users	1.85	1.46	1.61	1.85	1.70	852
AS-2	Giving users individual attention	1.88	1.70	1.68	1.90	1.75	906
AS-3	Library staff who are consistently courteous	1.91	1.49	1.50	1.94	1.66	907
AS-4	Readiness to respond to users' enquiries	1.67	1.32	1.49	1.74	1.49	891
AS-5	Library staff who have the knowledge to answer user questions	1.78	1.38	1.57	1.72	1.46	964
AS-6	Library staff who deal with users in a caring fashion	1.78	1.41	1.50	1.81	1.59	3,232
AS-7	Library staff who understand the needs of their users	1.64	1.28	1.52	1.74	1.57	938
AS-8	Willingness to help users	1.74	1.34	1.46	1.78	1.52	891
AS-9	Dependability in handling users' service problems	1.70	1.29	1.56	1.86	1.68	751
Information Control							
IC-1	Making electronic resources accessible from my home or office	1.66	1.21	1.82	2.10	1.92	974
IC-2	A library Web site enabling me to locate information on my own	1.66	1.27	1.72	2.00	1.80	1,166
IC-3	The printed library materials I need for my work	1.92	1.72	1.76	2.22	2.09	929
IC-4	The electronic information resources I need	1.61	1.31	1.62	1.93	1.81	3,290
IC-5	Modern equipment that lets me easily access needed information	1.81	1.51	1.60	1.88	1.81	1,044
IC-6	Easy-to-use access tools that allow me to find things on my own	1.60	1.27	1.64	1.97	1.83	1,109
IC-7	Making information easily accessible for independent use	1.63	1.25	1.55	1.90	1.68	1,040
IC-8	Print and/or electronic journal collections I require for my work	1.69	1.39	1.71	2.00	1.88	915
Library as Place							
LP-1	Library space that inspires study and learning	2.17	2.15	1.90	2.44	2.50	2,768
LP-2	Quiet space for individual work	2.27	2.13	2.01	2.60	2.55	770
LP-3	A comfortable and inviting location	1.96	1.77	1.81	2.24	2.07	863
LP-4	A haven for study, learning, or research	2.11	1.88	1.82	2.26	2.24	770
LP-5	Space for group learning and group study	2.27	2.32	2.01	2.43	2.57	597
Overall:		1.37	1.11	1.22	1.41	1.27	3,373

6.3 Core Question Dimensions Summary for Academic 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.



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	6.73	7.87	7.48	0.75	-0.39	3,338
Information Control	6.88	8.08	6.84	-0.04	-1.24	3,363
Library as Place	5.79	7.12	6.48	0.69	-0.64	2,942
Overall	6.60	7.81	7.02	0.42	-0.79	3,373

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	1.62	1.30	1.38	1.58	1.42	3,338
Information Control	1.42	1.15	1.41	1.64	1.52	3,363
Library as Place	2.04	1.99	1.75	2.22	2.24	2,942
Overall	1.37	1.11	1.22	1.41	1.27	3,373

6.4 Local Question Summary for Academic Staff

This table shows mean scores of 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	6.00	8.33	8.67	2.67	0.33	3
Availability of online help when using my library's electronic resources	6.30	7.73	6.05	-0.25	-1.68	44
Informing me of useful library services	6.12	7.14	6.58	0.46	-0.57	201
Librarians teaching me how to access or manage information	6.29	7.48	7.39	1.10	-0.10	31
An environment that facilitates group study and problem solving	5.05	6.08	6.32	1.27	0.24	59
Ease of use of electronic resources	7.02	8.16	6.98	-0.04	-1.18	104
Providing help when and where I need it	6.72	8.03	7.13	0.40	-0.90	72
Teaching me how to access, evaluate, and use information	5.67	6.56	6.94	1.28	0.39	18
Making me aware of library services	6.25	7.14	7.64	1.39	0.50	28
Subject bibliographies	6.53	7.87	6.51	-0.02	-1.36	53
Library orientations / instruction sessions	5.94	7.14	6.79	0.85	-0.35	175
Electronic resources matching my information needs	6.60	7.70	6.30	-0.30	-1.40	10
Fine and replacement policies that are reasonable	5.87	7.35	6.35	0.48	-1.00	23
Contribution to the intellectual atmosphere of the campus	6.61	7.71	6.75	0.14	-0.95	85
Ready access to computers / Internet / software	6.79	7.94	6.88	0.09	-1.06	33
Library staff teaching me how to find information	5.82	6.73	7.64	1.82	0.91	11
Using the library for research	6.40	7.93	5.67	-0.73	-2.27	15
Online tutorials and other learning tools that help me use library resources and services independently	5.71	6.71	6.54	0.83	-0.17	35
Creating, editing, and publishing with digital media in appropriate library spaces	5.50	6.79	6.79	1.29	0.00	14
Accessing library resources via the VLE	7.08	7.92	7.46	0.38	-0.46	13
Information provided by the Careers Service						0
Convenience of borrowing books	6.90	8.32	7.28	0.38	-1.04	78
Support provided by the library to access course materials (textbooks, readings, online resources)	7.23	8.00	7.59	0.36	-0.41	39
Ease of use of library-provided electronic books	6.82	7.74	6.31	-0.51	-1.44	39
An online service that allows me to search easily for journal articles	7.69	8.57	7.71	0.03	-0.86	35
Provision of space and facilities that allow me to use my own laptop and/or other mobile device	6.15	7.45	6.64	0.49	-0.81	53
Access to photocopying and printing facilities	6.55	7.85	6.51	-0.03	-1.33	117
The main texts and readings I need for my work	7.12	8.17	6.86	-0.26	-1.31	156

Provision of information skills training	7.38	7.85	7.31	-0.08	-0.54	13
Helpfulness in dealing with users' IT problems	6.81	7.93	6.99	0.17	-0.95	150
Availability of subject specialist assistance	6.33	7.16	6.72	0.39	-0.44	130
Library staff teaching me how to effectively use the electronically available databases, journals, and books	6.15	7.44	7.13	0.98	-0.31	54
Making me aware of library resources and services	6.38	7.71	6.67	0.29	-1.04	135
Teaching me how to locate, evaluate, and use information	5.89	6.95	6.26	0.37	-0.68	19
Convenient service hours	6.41	7.70	7.04	0.63	-0.65	227
Ability to navigate library Web pages easily	6.63	7.88	7.00	0.38	-0.88	16
A center for intellectual stimulation	6.67	8.33	5.89	-0.78	-2.44	9
Access to archives, special collections	5.52	6.85	6.52	1.00	-0.33	27
Browsing library materials in the stacks	5.94	7.13	5.84	-0.10	-1.29	31
Convenient access to library collections	6.85	8.04	6.63	-0.22	-1.41	79
Convenient business hours	6.52	8.03	6.80	0.28	-1.24	177
Enabling me to find information myself 24 hours a day	7.13	8.30	7.63	0.50	-0.67	46
Facilitating self-directed research	6.45	7.50	7.50	1.05	0.00	20
Instruction in library use, when needed	6.56	7.53	7.13	0.57	-0.40	72
Librarians providing help that both assists in finding the information needed now, and improves skills useful in future information searches	7.09	7.36	7.27	0.18	-0.09	11
Modern equipment	6.36	7.86	7.07	0.71	-0.79	14
Providing direction to self-navigate the library	6.22	7.00	7.78	1.56	0.78	9
Resources added to library collections on request	6.33	7.00	7.33	1.00	0.33	3
Timely document delivery / interlibrary loan	6.82	8.00	7.24	0.42	-0.76	33
Space for students to study and work in groups	6.05	6.47	6.37	0.32	-0.11	19
Adequate hours of service	6.93	7.69	7.28	0.35	-0.41	68
Providing me with the information skills I need for my work or study	6.53	7.74	7.00	0.47	-0.74	19
The 24 by 7 live chat service provides information assistance when and where I need it						0
Availability of timely help when using my library's electronic resources	7.17	7.33	6.33	-0.83	-1.00	6
An online catalog that is user-friendly for finding materials	7.33	8.58	6.33	-1.00	-2.25	12

This table displays the standard deviations of 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	3.00	0.58	0.58	2.52	0.58	3
Availability of online help when using my library's electronic resources	1.59	1.45	1.71	1.89	1.83	44
Informing me of useful library services	1.81	1.60	1.71	1.81	1.70	201
Librarians teaching me how to access or manage information	2.07	1.50	1.45	1.45	1.30	31
An environment that facilitates group study and problem solving	2.01	2.21	1.80	2.50	2.78	59
Ease of use of electronic resources	1.62	1.19	1.76	2.03	1.80	104
Providing help when and where I need it	1.79	1.29	1.65	2.03	1.74	72
Teaching me how to access, evaluate, and use information	2.30	2.33	2.04	2.61	3.33	18
Making me aware of library services	2.10	1.92	1.22	2.06	1.97	28
Subject bibliographies	1.91	1.58	1.69	2.25	2.01	53
Library orientations / instruction sessions	2.17	1.91	1.67	2.11	2.00	175
Electronic resources matching my information needs	1.35	1.49	2.00	1.49	2.17	10
Fine and replacement policies that are reasonable	2.55	2.14	2.01	2.21	1.73	23
Contribution to the intellectual atmosphere of the campus	1.76	1.45	1.60	1.95	1.87	85
Ready access to computers / Internet / software	1.93	1.48	2.09	1.97	2.29	33
Library staff teaching me how to find information	2.75	1.90	1.21	2.40	1.45	11
Using the library for research	1.76	1.53	2.09	3.10	2.19	15
Online tutorials and other learning tools that help me use library resources and services independently	1.99	2.07	1.88	1.69	1.87	35
Creating, editing, and publishing with digital media in appropriate library spaces	2.18	2.69	1.53	1.64	2.42	14
Accessing library resources via the VLE	1.38	0.95	0.66	1.39	0.78	13
Information provided by the Careers Service						0
Convenience of borrowing books	1.59	0.88	1.59	1.98	1.66	78
Support provided by the library to access course materials (textbooks, readings, online resources)	1.56	1.56	1.23	1.61	1.57	39
Ease of use of library-provided electronic books	1.50	1.29	1.54	2.00	1.76	39
An online service that allows me to search easily for journal articles	1.45	0.74	0.89	1.46	1.03	35
Provision of space and facilities that allow me to use my own laptop and/or other mobile device	2.43	2.02	1.91	2.05	1.86	53
Access to photocopying and printing facilities	1.79	1.36	1.81	2.17	2.13	117
The main texts and readings I need for my work	1.70	1.50	1.72	2.00	1.81	156

Language: Dutch, English (British), English (Dutch), English (Fr)
 Institution Type: College or University
 Consortium: European College and University Libraries
 User Group: Academic Staff

Provision of information skills training	1.45	1.14	1.11	1.04	1.13	13
Helpfulness in dealing with users' IT problems	1.50	1.25	1.58	1.91	1.85	150
Availability of subject specialist assistance	1.93	1.85	1.83	2.08	1.80	130
Library staff teaching me how to effectively use the electronically available databases, journals, and books	2.24	1.96	1.71	2.08	1.76	54
Making me aware of library resources and services	1.79	1.30	1.80	2.07	1.83	135
Teaching me how to locate, evaluate, and use information	1.10	1.35	2.00	2.29	2.81	19
Convenient service hours	1.82	1.55	1.61	2.15	2.03	227
Ability to navigate library Web pages easily	1.45	1.50	1.41	1.82	1.45	16
A center for intellectual stimulation	1.73	0.87	2.67	3.03	3.09	9
Access to archives, special collections	2.26	2.61	2.21	2.81	3.48	27
Browsing library materials in the stacks	1.90	1.96	2.07	2.49	3.05	31
Convenient access to library collections	1.60	1.11	1.99	2.12	1.94	79
Convenient business hours	1.57	1.30	1.83	2.13	2.07	177
Enabling me to find information myself 24 hours a day	1.36	0.94	1.31	1.60	1.37	46
Facilitating self-directed research	1.32	1.70	1.36	2.04	1.97	20
Instruction in library use, when needed	1.53	1.39	1.37	1.28	1.33	72
Librarians providing help that both assists in finding the information needed now, and improves skills useful in future information searches	1.38	1.43	1.49	1.60	1.04	11
Modern equipment	1.50	0.95	1.82	1.73	2.12	14
Providing direction to self-navigate the library	2.11	1.66	1.20	1.74	1.72	9
Resources added to library collections on request	1.53	1.00	0.58	1.73	0.58	3
Timely document delivery / interlibrary loan	1.79	1.62	1.30	1.79	1.62	33
Space for students to study and work in groups	2.57	2.84	1.89	2.50	2.73	19
Adequate hours of service	1.86	1.60	1.81	1.65	1.69	68
Providing me with the information skills I need for my work or study	1.98	1.97	1.56	2.80	2.62	19
The 24 by 7 live chat service provides information assistance when and where I need it						0
Availability of timely help when using my library's electronic resources	1.47	1.51	2.16	2.32	2.45	6
An online catalog that is user-friendly for finding materials	1.56	0.67	2.35	2.95	2.45	12

6.5 General Satisfaction Questions Summary for Academic Staff

This table displays the 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 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.	7.61	1.50	1,743
In general, I am satisfied with library support for my learning, research, and/or teaching needs.	7.05	1.73	1,796
How would you rate the overall quality of the service provided by the library?	7.25	1.48	3,372

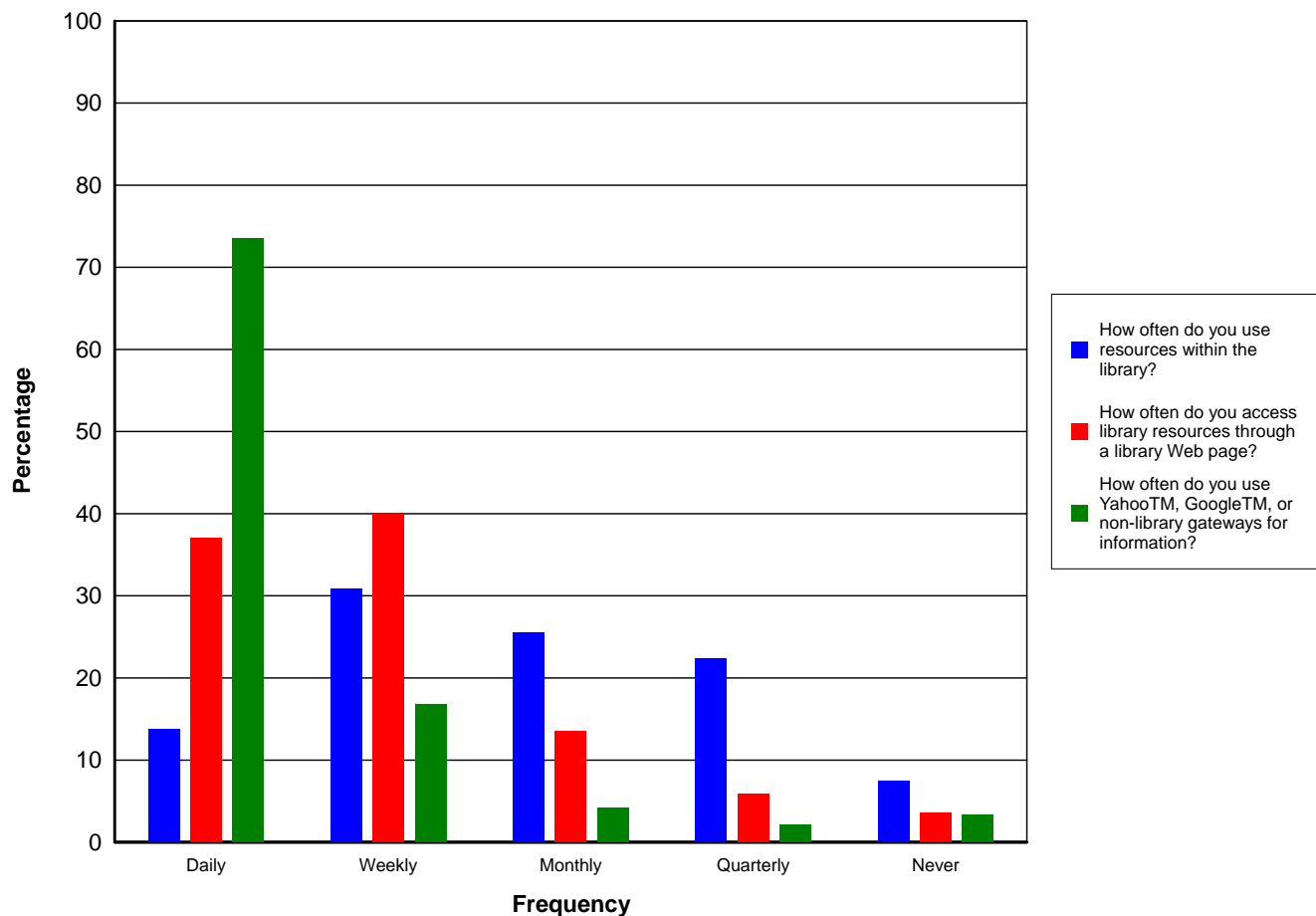
6.6 Information Literacy Outcomes Questions Summary for Academic Staff

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 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.	5.91	2.16	1,350
The library aids my advancement in my academic discipline or work.	6.96	1.81	1,539
The library enables me to be more efficient in my academic pursuits or work.	6.99	1.79	1,540
The library helps me distinguish between trustworthy and untrustworthy information.	5.61	2.07	1,506
The library provides me with the information skills I need in my work or study.	6.45	1.90	1,306

6.7 Library Use Summary for Academic 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 within the library?	463 13.73%	1,041 30.86%	862 25.56%	754 22.35%	253 7.50%	3,373 100.00%
How often do you access library resources through a library Web page?	1,250 37.07%	1,348 39.98%	454 13.46%	199 5.90%	121 3.59%	3,372 100.00%
How often do you use Yahoo™, Google™, or non-library gateways for information?	2,481 73.55%	567 16.81%	142 4.21%	72 2.13%	111 3.29%	3,373 100.00%

7 Summary for Library Staff

7.1 Demographic Summary for Library Staff

7.1.1 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	9	1.78
18 - 22	21	4.16
23 - 30	82	16.24
31 - 45	182	36.04
46 - 65	205	40.59
Over 65	6	1.19
Total:	505	100.00

7.1.2 Respondent Profile 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:	Respondents n	Respondents %
Female	341	67.52
Male	164	32.48
Total:	505	100.00

7.1.3 Respondent Profile by Full or part-time student?

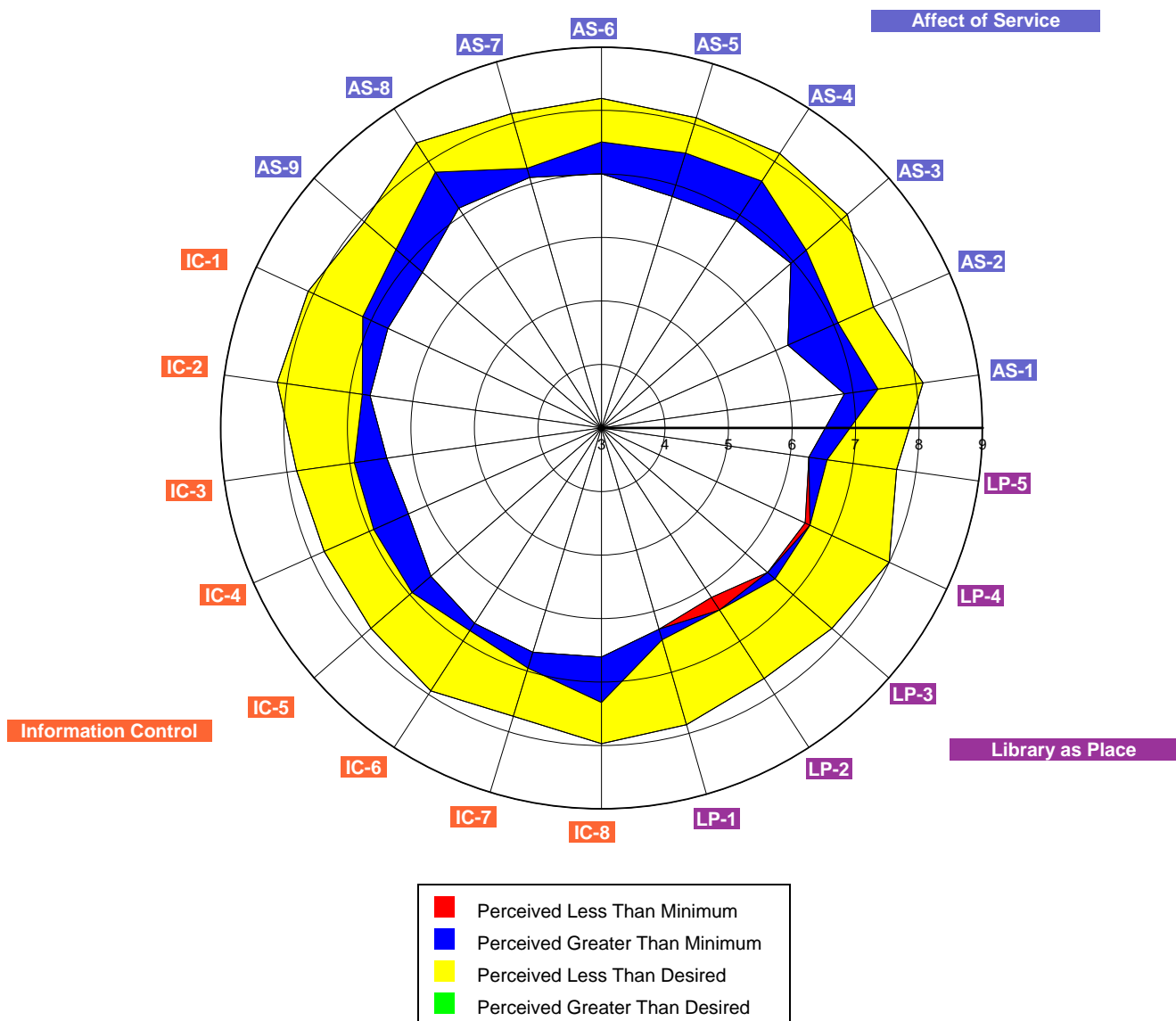
Full or part-time student?	Respondents n	Respondents %
Full-time	26	7.72
Part-time	38	11.28
Does not apply / NA	273	81.01
Total:	337	100.00

7.2 Core Questions Summary for Library Staff

This radar chart shows the 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, Information Control, and Library as Place.

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 or service superiority) are shaded in blue, yellow, green, and red.

The following two 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.)



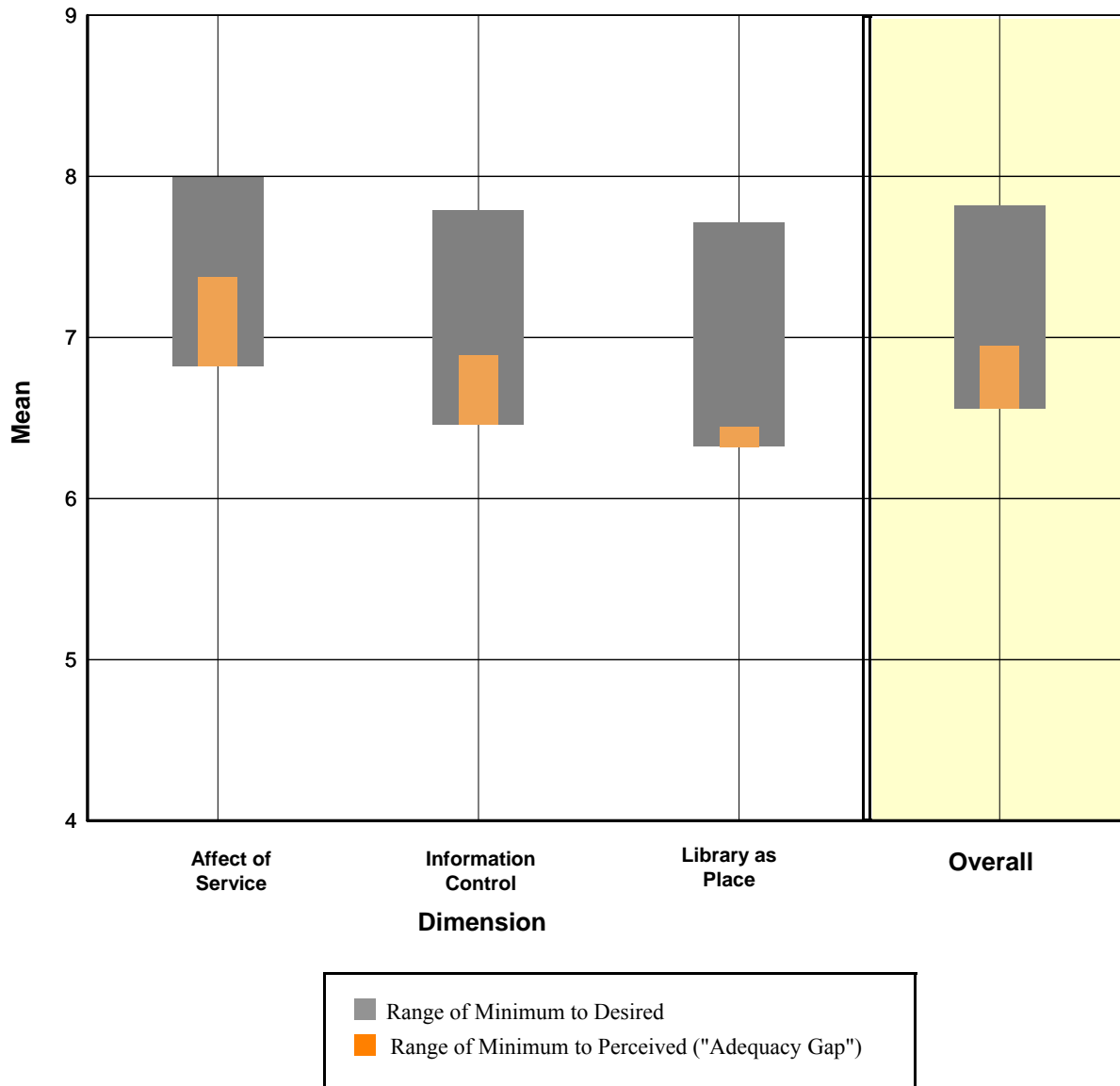
Language: Dutch, English (British), English (Dutch), English (Fr
 Institution Type: College or University
 Consortium: European College and University Libraries
 User Group: Library Staff

ID	Question Text	Minimum Mean	Desired Mean	Perceived Mean	Adequacy Mean	Superiority Mean	n
Affect of Service							
AS-1	Library staff who instill confidence in users	6.86	8.11	7.40	0.53	-0.71	133
AS-2	Giving users individual attention	6.21	7.68	7.08	0.86	-0.61	146
AS-3	Library staff who are consistently courteous	6.95	8.13	7.27	0.32	-0.86	148
AS-4	Readiness to respond to users' enquiries	6.90	8.15	7.64	0.74	-0.52	137
AS-5	Library staff who have the knowledge to answer user questions	6.81	8.11	7.53	0.71	-0.58	129
AS-6	Library staff who deal with users in a caring fashion	7.00	8.19	7.50	0.50	-0.69	470
AS-7	Library staff who understand the needs of their users	7.10	8.15	7.25	0.15	-0.90	134
AS-8	Willingness to help users	7.13	8.35	7.80	0.68	-0.55	133
AS-9	Dependability in handling users' service problems	6.74	7.95	7.29	0.55	-0.66	133
Information Control							
IC-1	Making electronic resources accessible from my home or office	6.71	8.09	7.15	0.44	-0.95	128
IC-2	A library Web site enabling me to locate information on my own	6.68	8.15	6.80	0.12	-1.35	182
IC-3	The printed library materials I need for my work	6.41	7.85	6.93	0.52	-0.92	157
IC-4	The electronic information resources I need	6.33	7.78	6.93	0.60	-0.85	464
IC-5	Modern equipment that lets me easily access needed information	6.56	7.81	6.95	0.39	-0.86	183
IC-6	Easy-to-use access tools that allow me to find things on my own	6.67	7.94	6.81	0.14	-1.13	154
IC-7	Making information easily accessible for independent use	6.69	7.75	6.95	0.26	-0.79	150
IC-8	Print and/or electronic journal collections I require for my work	6.61	7.97	7.32	0.72	-0.65	127
Library as Place							
LP-1	Library space that inspires study and learning	6.29	7.86	6.47	0.17	-1.39	468
LP-2	Quiet space for individual work	6.42	7.70	6.18	-0.24	-1.52	144
LP-3	A comfortable and inviting location	6.47	7.81	6.62	0.15	-1.19	156
LP-4	A haven for study, learning, or research	6.62	8.00	6.54	-0.08	-1.46	130
LP-5	Space for group learning and group study	6.30	7.69	6.59	0.29	-1.10	124
Overall:		6.56	7.82	6.95	0.39	-0.87	505

ID	Question Text	Minimum SD	Desired SD	Perceived SD	Adequacy SD	Superiority SD	n
Affect of Service							
AS-1	Library staff who instill confidence in users	1.57	1.08	1.33	1.77	1.43	133
AS-2	Giving users individual attention	1.75	1.40	1.58	1.96	1.92	146
AS-3	Library staff who are consistently courteous	1.68	1.36	1.64	1.94	1.50	148
AS-4	Readiness to respond to users' enquiries	1.63	1.18	1.37	1.90	1.82	137
AS-5	Library staff who have the knowledge to answer user questions	1.51	1.28	1.16	1.36	1.34	129
AS-6	Library staff who deal with users in a caring fashion	1.50	1.18	1.46	1.77	1.45	470
AS-7	Library staff who understand the needs of their users	1.28	1.24	1.43	1.66	1.48	134
AS-8	Willingness to help users	1.59	0.94	1.32	1.56	1.31	133
AS-9	Dependability in handling users' service problems	1.55	1.56	1.50	1.90	1.88	133
Information Control							
IC-1	Making electronic resources accessible from my home or office	1.71	1.23	1.51	1.75	1.58	128
IC-2	A library Web site enabling me to locate information on my own	1.44	1.23	1.55	1.77	1.81	182
IC-3	The printed library materials I need for my work	1.64	1.49	1.57	1.97	1.63	157
IC-4	The electronic information resources I need	1.66	1.58	1.56	1.96	1.65	464
IC-5	Modern equipment that lets me easily access needed information	1.63	1.54	1.40	1.80	1.80	183
IC-6	Easy-to-use access tools that allow me to find things on my own	1.65	1.43	1.48	1.94	1.96	154
IC-7	Making information easily accessible for independent use	1.48	1.41	1.32	1.62	1.67	150
IC-8	Print and/or electronic journal collections I require for my work	1.56	1.31	1.33	1.70	1.28	127
Library as Place							
LP-1	Library space that inspires study and learning	1.71	1.53	1.81	2.32	2.26	468
LP-2	Quiet space for individual work	1.86	1.57	1.82	2.30	2.08	144
LP-3	A comfortable and inviting location	1.53	1.59	1.80	2.16	1.93	156
LP-4	A haven for study, learning, or research	1.80	1.26	1.79	2.12	1.79	130
LP-5	Space for group learning and group study	1.69	1.59	1.74	2.16	1.92	124
Overall:		1.35	1.28	1.23	1.42	1.24	505

7.3 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.



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	6.82	8.00	7.37	0.55	-0.62	494
Information Control	6.46	7.79	6.89	0.43	-0.90	501
Library as Place	6.32	7.71	6.45	0.12	-1.26	494
Overall	6.56	7.82	6.95	0.39	-0.87	505

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	1.53	1.33	1.44	1.64	1.45	494
Information Control	1.49	1.41	1.32	1.58	1.44	501
Library as Place	1.62	1.54	1.73	2.11	1.95	494
Overall	1.35	1.28	1.23	1.42	1.24	505

7.4 Local Question Summary for Library Staff

This table shows mean scores of 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	7.67	7.67	8.67	1.00	1.00	3
Availability of online help when using my library's electronic resources	6.25	8.00	6.25	0.00	-1.75	8
Informing me of useful library services	6.26	6.91	6.87	0.61	-0.04	23
Librarians teaching me how to access or manage information	6.00	7.00	8.00	2.00	1.00	1
An environment that facilitates group study and problem solving	6.86	8.14	7.14	0.29	-1.00	7
Ease of use of electronic resources	6.36	7.14	6.43	0.07	-0.71	14
Providing help when and where I need it	7.40	8.80	7.40	0.00	-1.40	5
Teaching me how to access, evaluate, and use information	3.60	6.80	6.80	3.20	0.00	5
Making me aware of library services	6.22	7.22	7.67	1.44	0.44	9
Subject bibliographies	5.75	6.25	6.25	0.50	0.00	4
Library orientations / instruction sessions	6.73	7.92	7.12	0.38	-0.81	26
Electronic resources matching my information needs	7.00	7.67	6.67	-0.33	-1.00	3
Fine and replacement policies that are reasonable	7.00	8.00	8.25	1.25	0.25	4
Contribution to the intellectual atmosphere of the campus	6.25	7.38	6.38	0.13	-1.00	8
Ready access to computers / Internet / software	6.60	8.20	6.20	-0.40	-2.00	5
Library staff teaching me how to find information	6.73	8.13	7.80	1.07	-0.33	15
Using the library for research	7.50	6.00	5.50	-2.00	-0.50	2
Online tutorials and other learning tools that help me use library resources and services independently	6.09	7.00	6.18	0.09	-0.82	11
Creating, editing, and publishing with digital media in appropriate library spaces	8.00	9.00	8.00	0.00	-1.00	1
Accessing library resources via the VLE						0
Information provided by the Careers Service						0
Convenience of borrowing books	6.74	8.13	7.26	0.52	-0.87	23
Support provided by the library to access course materials (textbooks, readings, online resources)						0
Ease of use of library-provided electronic books						0
An online service that allows me to search easily for journal articles						0
Provision of space and facilities that allow me to use my own laptop and/or other mobile device	8.00	8.00	8.50	0.50	0.50	2
Access to photocopying and printing facilities	6.84	8.22	7.10	0.26	-1.12	50
The main texts and readings I need for my work	6.91	7.73	7.50	0.59	-0.23	22

Provision of information skills training	6.50	8.00	7.00	0.50	-1.00	8
Helpfulness in dealing with users' IT problems	7.08	8.23	7.38	0.30	-0.85	40
Availability of subject specialist assistance	7.00	8.10	7.45	0.45	-0.65	20
Library staff teaching me how to effectively use the electronically available databases, journals, and books	6.43	7.79	7.71	1.29	-0.07	14
Making me aware of library resources and services	6.84	8.04	7.16	0.32	-0.88	25
Teaching me how to locate, evaluate, and use information	6.80	7.80	7.20	0.40	-0.60	5
Convenient service hours	6.53	7.84	7.47	0.95	-0.37	19
Ability to navigate library Web pages easily	6.64	8.27	7.18	0.55	-1.09	11
A center for intellectual stimulation						0
Access to archives, special collections	5.19	5.88	6.50	1.31	0.63	16
Browsing library materials in the stacks	6.67	7.67	6.67	0.00	-1.00	6
Convenient access to library collections	6.62	7.90	6.90	0.29	-1.00	21
Convenient business hours	6.16	7.91	6.97	0.81	-0.94	32
Enabling me to find information myself 24 hours a day	7.25	8.50	8.25	1.00	-0.25	8
Facilitating self-directed research	6.00	7.50	8.50	2.50	1.00	2
Instruction in library use, when needed	6.56	7.89	7.56	1.00	-0.33	9
Librarians providing help that both assists in finding the information needed now, and improves skills useful in future information searches						0
Modern equipment						0
Providing direction to self-navigate the library						0
Resources added to library collections on request	5.75	8.00	7.25	1.50	-0.75	4
Timely document delivery / interlibrary loan						0
Space for students to study and work in groups	6.50	7.94	6.06	-0.44	-1.88	16
Adequate hours of service	7.08	8.13	7.74	0.66	-0.39	38
Providing me with the information skills I need for my work or study						0
The 24 by 7 live chat service provides information assistance when and where I need it						0
Availability of timely help when using my library's electronic resources	7.29	8.14	7.00	-0.29	-1.14	7
An online catalog that is user-friendly for finding materials						0

This table displays the standard deviations of 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	1.53	0.58	0.58	1.00	1.00	3
Availability of online help when using my library's electronic resources	1.83	1.20	2.38	3.85	3.24	8
Informing me of useful library services	1.86	2.00	2.28	2.55	2.34	23
Librarians teaching me how to access or manage information						1
An environment that facilitates group study and problem solving	2.19	1.57	2.27	1.38	1.15	7
Ease of use of electronic resources	2.27	2.07	1.87	1.77	1.90	14
Providing help when and where I need it	1.67	0.45	1.34	1.73	1.14	5
Teaching me how to access, evaluate, and use information	2.30	1.79	2.39	2.17	3.39	5
Making me aware of library services	2.39	1.86	1.41	1.42	0.88	9
Subject bibliographies	0.96	1.26	1.26	1.73	1.63	4
Library orientations / instruction sessions	1.34	1.02	1.31	1.88	1.44	26
Electronic resources matching my information needs	1.00	1.15	1.53	1.53	1.00	3
Fine and replacement policies that are reasonable	1.15	1.41	0.50	1.50	1.26	4
Contribution to the intellectual atmosphere of the campus	2.55	1.51	1.51	1.81	1.31	8
Ready access to computers / Internet / software	1.52	0.45	1.30	1.82	1.22	5
Library staff teaching me how to find information	1.44	0.74	0.94	0.96	1.05	15
Using the library for research	0.71	2.83	0.71	1.41	2.12	2
Online tutorials and other learning tools that help me use library resources and services independently	1.64	1.61	1.54	1.97	1.60	11
Creating, editing, and publishing with digital media in appropriate library spaces						1
Accessing library resources via the VLE						0
Information provided by the Careers Service						0
Convenience of borrowing books	1.25	0.92	1.18	1.34	1.06	23
Support provided by the library to access course materials (textbooks, readings, online resources)						0
Ease of use of library-provided electronic books						0
An online service that allows me to search easily for journal articles						0
Provision of space and facilities that allow me to use my own laptop and/or other mobile device	0.00	0.00	0.71	0.71	0.71	2
Access to photocopying and printing facilities	1.69	1.17	1.76	2.21	2.06	50
The main texts and readings I need for my work	1.69	1.42	1.01	2.04	1.57	22

Provision of information skills training	1.93	1.07	1.41	3.02	1.69	8
Helpfulness in dealing with users' IT problems	1.51	1.23	1.46	1.88	1.37	40
Availability of subject specialist assistance	1.52	1.17	1.43	1.85	1.81	20
Library staff teaching me how to effectively use the electronically available databases, journals, and books	1.87	1.31	1.07	2.30	1.64	14
Making me aware of library resources and services	1.49	0.89	1.18	1.35	1.24	25
Teaching me how to locate, evaluate, and use information	2.17	2.17	1.92	1.67	0.89	5
Convenient service hours	1.65	0.96	1.35	2.22	1.34	19
Ability to navigate library Web pages easily	1.50	0.79	1.33	1.75	1.04	11
A center for intellectual stimulation						0
Access to archives, special collections	2.07	2.55	2.03	2.85	2.50	16
Browsing library materials in the stacks	1.03	1.51	1.03	1.26	1.90	6
Convenient access to library collections	1.20	0.94	1.18	1.95	1.67	21
Convenient business hours	1.30	1.09	1.28	2.05	1.93	32
Enabling me to find information myself 24 hours a day	1.04	0.53	0.89	0.93	0.71	8
Facilitating self-directed research	1.41	2.12	0.71	0.71	1.41	2
Instruction in library use, when needed	1.01	1.27	0.53	1.22	1.50	9
Librarians providing help that both assists in finding the information needed now, and improves skills useful in future information searches						0
Modern equipment						0
Providing direction to self-navigate the library						0
Resources added to library collections on request	1.50	0.82	0.96	1.29	0.96	4
Timely document delivery / interlibrary loan						0
Space for students to study and work in groups	1.26	1.29	1.44	2.00	1.86	16
Adequate hours of service	1.17	0.84	1.25	1.63	1.41	38
Providing me with the information skills I need for my work or study						0
The 24 by 7 live chat service provides information assistance when and where I need it						0
Availability of timely help when using my library's electronic resources	1.11	0.90	1.63	2.21	1.57	7
An online catalog that is user-friendly for finding materials						0

7.5 General Satisfaction Questions Summary for Library Staff

This table displays the 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 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.	7.26	1.53	253
In general, I am satisfied with library support for my learning, research, and/or teaching needs.	7.14	1.62	283
How would you rate the overall quality of the service provided by the library?	7.25	1.58	505

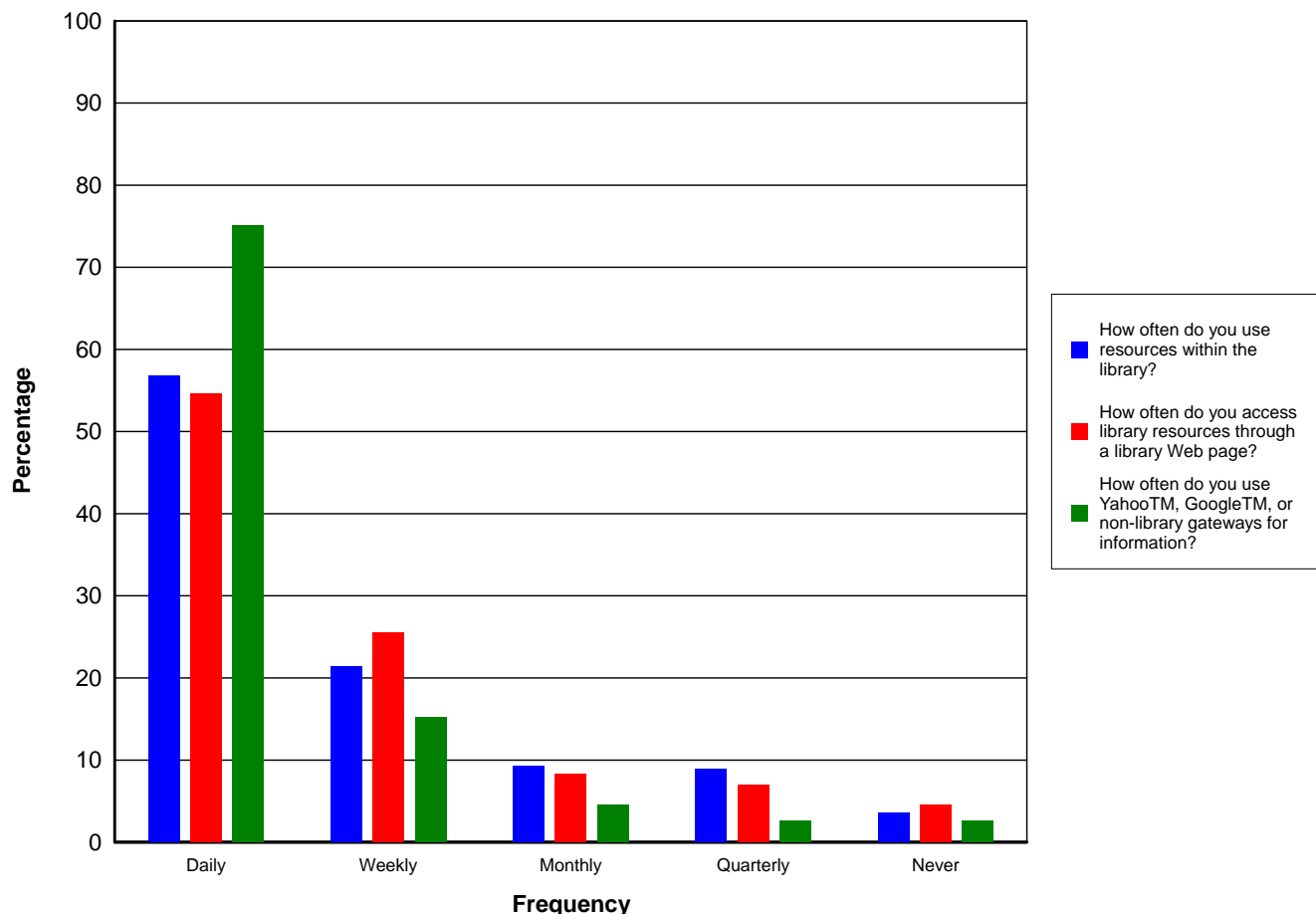
7.6 Information Literacy Outcomes Questions Summary for Library Staff

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 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	1.82	196
The library aids my advancement in my academic discipline or work.	6.95	1.63	217
The library enables me to be more efficient in my academic pursuits or work.	7.04	1.56	238
The library helps me distinguish between trustworthy and untrustworthy information.	6.58	1.68	246
The library provides me with the information skills I need in my work or study.	7.00	1.43	206

7.7 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 within the library?	287 56.83%	108 21.39%	47 9.31%	45 8.91%	18 3.56%	505 100.00%
How often do you access library resources through a library Web page?	276 54.65%	129 25.54%	42 8.32%	35 6.93%	23 4.55%	505 100.00%
How often do you use Yahoo™, Google™, or non-library gateways for information?	379 75.05%	77 15.25%	23 4.55%	13 2.57%	13 2.57%	505 100.00%

Language: Dutch, English (British), English (Dutch), English (Fr
 Institution Type: College or University
 Consortium: European College and University Libraries
 User Group: Library Staff

8 Summary for Staff

8.1 Demographic Summary for Staff

8.1.1 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	25	1.45
18 - 22	459	26.53
23 - 30	308	17.80
31 - 45	557	32.20
46 - 65	358	20.69
Over 65	23	1.33
Total:	1,730	100.00

8.1.2 Respondent Profile 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:	Respondents n	Respondents %
Female	983	56.92
Male	744	43.08
Total:	1,727	100.00

8.1.3 Respondent Profile by Full or part-time student?

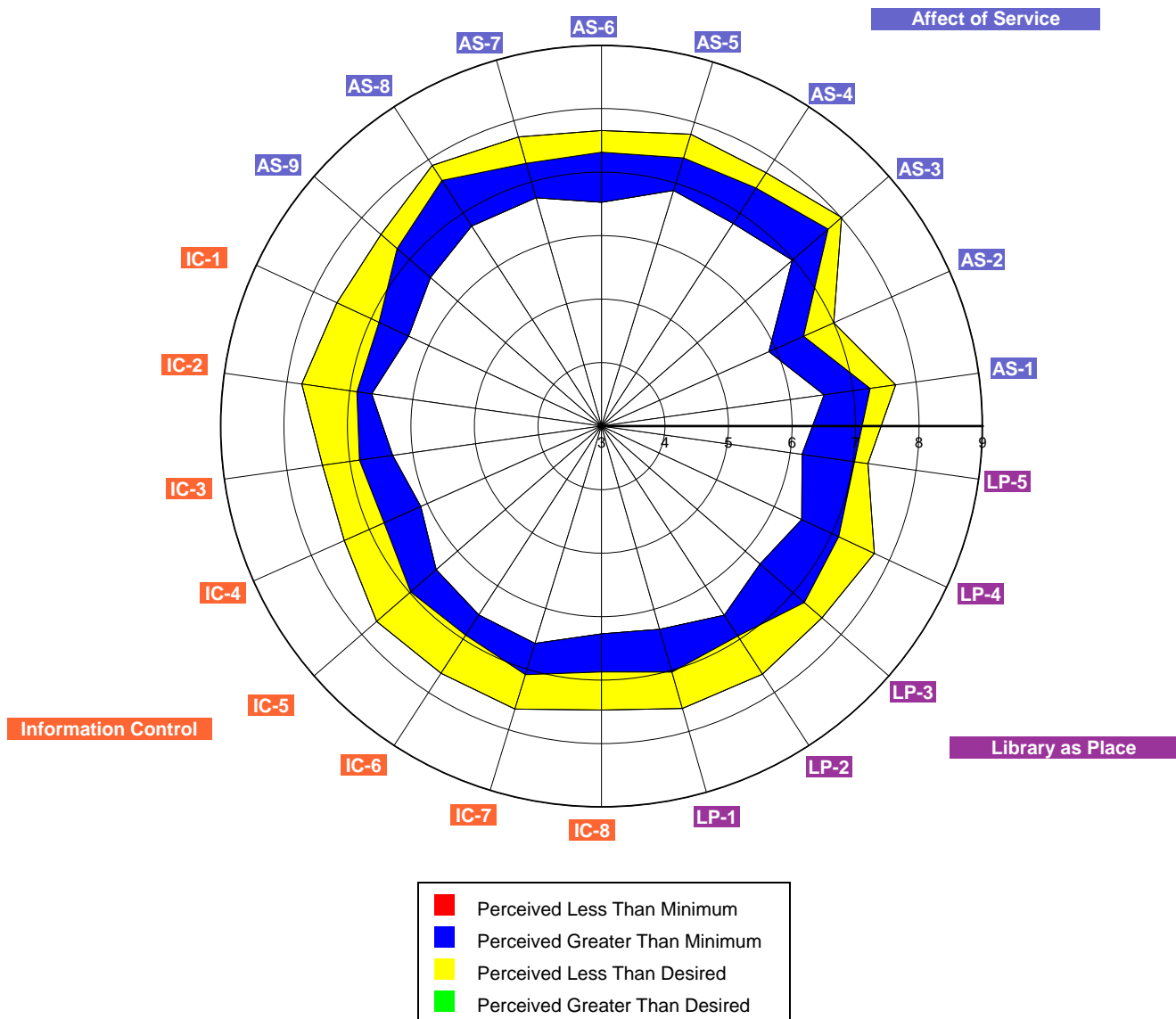
Full or part-time student?	Respondents n	Respondents %
Full-time	35	4.94
Part-time	63	8.90
Does not apply / NA	610	86.16
Total:	708	100.00

8.2 Core Questions Summary for Staff

This radar chart shows the 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, Information Control, and Library as Place.

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 or service superiority) are shaded in blue, yellow, green, and red.

The following two 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.)

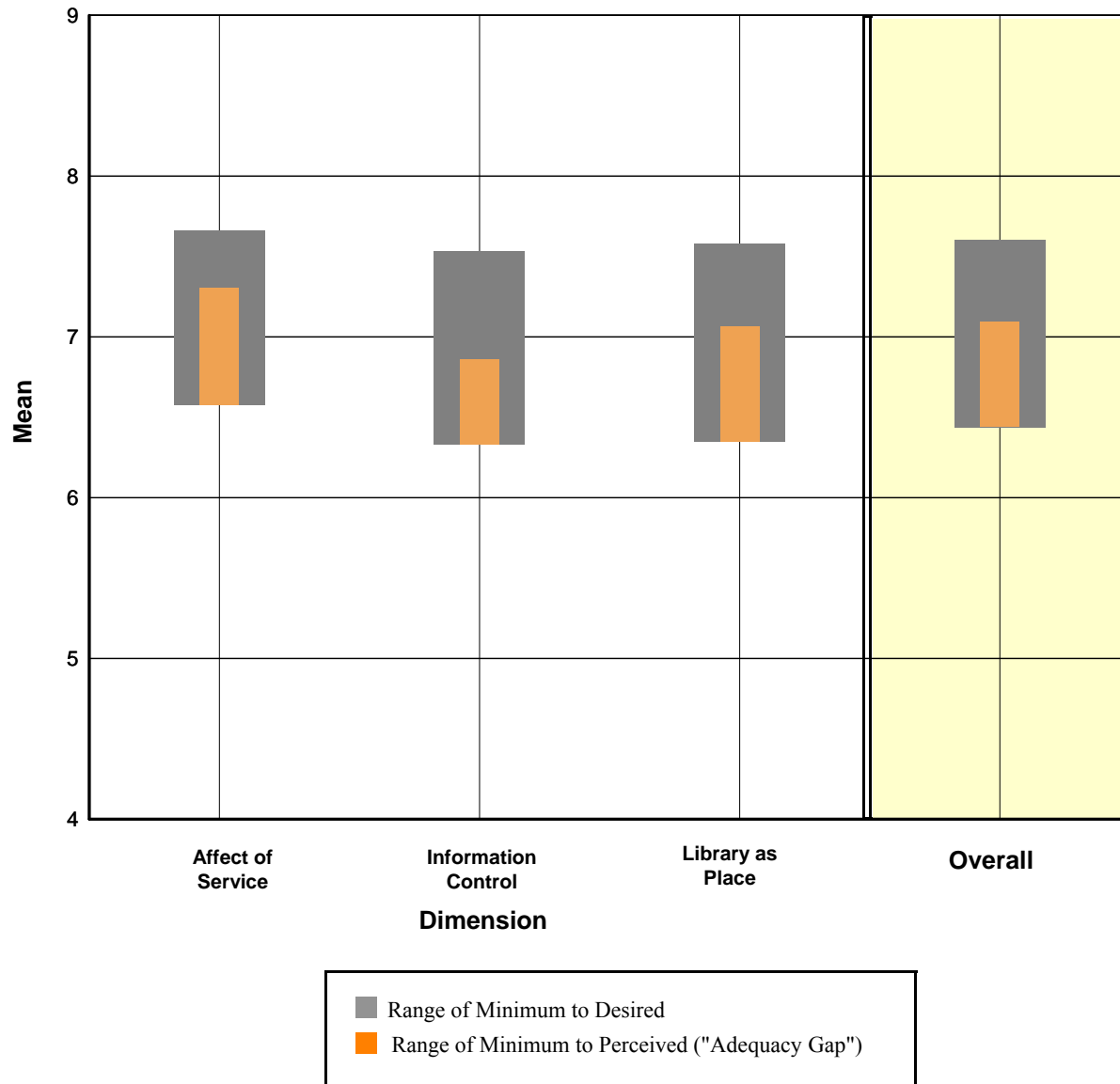


ID	Question Text	Minimum Mean	Desired Mean	Perceived Mean	Adequacy Mean	Superiority Mean	n
Affect of Service							
AS-1	Library staff who instill confidence in users	6.54	7.68	7.27	0.73	-0.40	420
AS-2	Giving users individual attention	5.89	7.00	6.48	0.60	-0.52	428
AS-3	Library staff who are consistently courteous	6.98	8.01	7.73	0.75	-0.28	422
AS-4	Readiness to respond to users' enquiries	6.81	7.76	7.47	0.66	-0.29	447
AS-5	Library staff who have the knowledge to answer user questions	6.88	7.81	7.42	0.53	-0.39	432
AS-6	Library staff who deal with users in a caring fashion	6.53	7.66	7.31	0.79	-0.34	1,663
AS-7	Library staff who understand the needs of their users	6.74	7.74	7.31	0.56	-0.43	445
AS-8	Willingness to help users	6.76	7.89	7.61	0.86	-0.28	426
AS-9	Dependability in handling users' service problems	6.57	7.60	7.26	0.70	-0.34	381
Information Control							
IC-1	Making electronic resources accessible from my home or office	6.35	7.60	6.87	0.51	-0.73	402
IC-2	A library Web site enabling me to locate information on my own	6.65	7.77	6.89	0.23	-0.88	511
IC-3	The printed library materials I need for my work	6.32	7.44	6.85	0.53	-0.59	438
IC-4	The electronic information resources I need	6.11	7.43	6.75	0.63	-0.69	1,595
IC-5	Modern equipment that lets me easily access needed information	6.45	7.69	6.98	0.53	-0.71	503
IC-6	Easy-to-use access tools that allow me to find things on my own	6.54	7.64	6.93	0.38	-0.71	536
IC-7	Making information easily accessible for independent use	6.58	7.66	7.09	0.51	-0.57	506
IC-8	Print and/or electronic journal collections I require for my work	6.27	7.47	6.87	0.60	-0.60	396
Library as Place							
LP-1	Library space that inspires study and learning	6.33	7.63	7.03	0.70	-0.59	1,564
LP-2	Quiet space for individual work	6.55	7.66	6.94	0.39	-0.71	398
LP-3	A comfortable and inviting location	6.31	7.60	7.23	0.92	-0.37	452
LP-4	A haven for study, learning, or research	6.48	7.74	7.12	0.64	-0.62	403
LP-5	Space for group learning and group study	6.19	7.24	7.02	0.84	-0.21	372
Overall:		6.44	7.60	7.09	0.65	-0.51	1,731

ID	Question Text	Minimum SD	Desired SD	Perceived SD	Adequacy SD	Superiority SD	n
Affect of Service							
AS-1	Library staff who instill confidence in users	1.69	1.37	1.50	1.62	1.50	420
AS-2	Giving users individual attention	1.82	1.60	1.81	1.87	1.85	428
AS-3	Library staff who are consistently courteous	1.72	1.31	1.40	1.67	1.28	422
AS-4	Readiness to respond to users' enquiries	1.64	1.34	1.36	1.69	1.47	447
AS-5	Library staff who have the knowledge to answer user questions	1.52	1.25	1.33	1.60	1.22	432
AS-6	Library staff who deal with users in a caring fashion	1.73	1.41	1.56	1.70	1.52	1,663
AS-7	Library staff who understand the needs of their users	1.61	1.31	1.52	1.53	1.42	445
AS-8	Willingness to help users	1.62	1.25	1.36	1.58	1.34	426
AS-9	Dependability in handling users' service problems	1.57	1.39	1.42	1.64	1.49	381
Information Control							
IC-1	Making electronic resources accessible from my home or office	1.88	1.62	1.74	2.04	1.84	402
IC-2	A library Web site enabling me to locate information on my own	1.64	1.40	1.63	1.83	1.65	511
IC-3	The printed library materials I need for my work	1.80	1.68	1.68	1.97	1.69	438
IC-4	The electronic information resources I need	1.69	1.54	1.60	1.81	1.76	1,595
IC-5	Modern equipment that lets me easily access needed information	1.58	1.33	1.43	1.73	1.59	503
IC-6	Easy-to-use access tools that allow me to find things on my own	1.55	1.29	1.42	1.69	1.59	536
IC-7	Making information easily accessible for independent use	1.57	1.26	1.46	1.73	1.52	506
IC-8	Print and/or electronic journal collections I require for my work	1.71	1.53	1.57	1.94	1.86	396
Library as Place							
LP-1	Library space that inspires study and learning	1.75	1.55	1.64	1.92	1.89	1,564
LP-2	Quiet space for individual work	1.90	1.67	1.85	2.26	2.10	398
LP-3	A comfortable and inviting location	1.70	1.39	1.49	1.85	1.79	452
LP-4	A haven for study, learning, or research	1.67	1.44	1.59	1.80	1.74	403
LP-5	Space for group learning and group study	1.82	1.71	1.73	2.11	1.98	372
Overall:		1.33	1.10	1.14	1.32	1.16	1,731

8.3 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.



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	6.58	7.66	7.31	0.73	-0.35	1,710
Information Control	6.33	7.53	6.86	0.53	-0.67	1,713
Library as Place	6.35	7.58	7.07	0.72	-0.51	1,629
Overall	6.44	7.60	7.09	0.65	-0.51	1,731

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	1.53	1.22	1.34	1.45	1.27	1,710
Information Control	1.44	1.26	1.33	1.50	1.39	1,713
Library as Place	1.61	1.42	1.49	1.75	1.66	1,629
Overall	1.33	1.10	1.14	1.32	1.16	1,731

8.4 Local Question Summary for Staff

This table shows mean scores of 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	5.75	6.25	6.50	0.75	0.25	4
Availability of online help when using my library's electronic resources	6.38	7.08	6.77	0.38	-0.31	13
Informing me of useful library services	5.95	7.02	6.72	0.77	-0.30	43
Librarians teaching me how to access or manage information	6.90	7.30	7.80	0.90	0.50	10
An environment that facilitates group study and problem solving	6.06	6.88	6.53	0.47	-0.35	17
Ease of use of electronic resources	7.02	7.78	6.96	-0.07	-0.83	46
Providing help when and where I need it	6.14	6.86	7.29	1.14	0.43	7
Teaching me how to access, evaluate, and use information	6.50	8.21	6.93	0.43	-1.29	14
Making me aware of library services	6.38	7.29	6.54	0.17	-0.75	24
Subject bibliographies	6.75	7.13	6.75	0.00	-0.38	8
Library orientations / instruction sessions	6.11	7.08	7.26	1.16	0.18	38
Electronic resources matching my information needs	5.67	6.00	7.33	1.67	1.33	3
Fine and replacement policies that are reasonable	6.64	7.29	7.14	0.50	-0.14	14
Contribution to the intellectual atmosphere of the campus	7.08	7.42	7.21	0.13	-0.21	24
Ready access to computers / Internet / software	6.11	7.47	6.29	0.19	-1.18	133
Library staff teaching me how to find information	7.00	7.81	8.00	1.00	0.19	27
Using the library for research	5.50	8.50	7.17	1.67	-1.33	6
Online tutorials and other learning tools that help me use library resources and services independently	5.69	6.69	7.46	1.77	0.77	13
Creating, editing, and publishing with digital media in appropriate library spaces	6.13	6.88	6.75	0.63	-0.13	8
Accessing library resources via the VLE	6.67	7.67	7.00	0.33	-0.67	3
Information provided by the Careers Service						0
Convenience of borrowing books	6.00	7.75	6.81	0.81	-0.94	16
Support provided by the library to access course materials (textbooks, readings, online resources)	5.50	7.50	6.00	0.50	-1.50	2
Ease of use of library-provided electronic books	6.00	7.00	6.50	0.50	-0.50	2
An online service that allows me to search easily for journal articles	9.00	9.00	7.00	-2.00	-2.00	1
Provision of space and facilities that allow me to use my own laptop and/or other mobile device	6.30	8.30	7.00	0.70	-1.30	10
Access to photocopying and printing facilities	6.38	7.62	6.60	0.22	-1.01	169
The main texts and readings I need for my work	7.23	8.10	7.17	-0.06	-0.94	48

Language: Dutch, English (British), English (Dutch), English (Fr)
 Institution Type: College or University
 Consortium: European College and University Libraries
 User Group: Staff

Provision of information skills training	6.86	8.29	8.00	1.14	-0.29	7
Helpfulness in dealing with users' IT problems	6.83	7.81	7.43	0.60	-0.38	77
Availability of subject specialist assistance	6.09	7.21	7.36	1.27	0.15	33
Library staff teaching me how to effectively use the electronically available databases, journals, and books	6.73	8.03	7.40	0.67	-0.63	30
Making me aware of library resources and services	5.82	7.08	6.72	0.90	-0.36	129
Teaching me how to locate, evaluate, and use information	6.56	8.00	6.44	-0.11	-1.56	9
Convenient service hours	6.67	7.56	7.28	0.61	-0.28	36
Ability to navigate library Web pages easily	6.36	7.49	6.78	0.43	-0.70	115
A center for intellectual stimulation	7.71	8.14	7.71	0.00	-0.43	14
Access to archives, special collections	7.38	7.63	6.88	-0.50	-0.75	16
Browsing library materials in the stacks	6.82	7.09	6.73	-0.09	-0.36	11
Convenient access to library collections	6.53	7.87	6.73	0.20	-1.13	15
Convenient business hours	6.55	7.79	6.91	0.36	-0.89	170
Enabling me to find information myself 24 hours a day	6.98	7.67	7.73	0.75	0.06	48
Facilitating self-directed research	6.23	7.54	7.23	1.00	-0.31	13
Instruction in library use, when needed	6.59	7.47	7.41	0.82	-0.06	17
Librarians providing help that both assists in finding the information needed now, and improves skills useful in future information searches	5.80	7.80	7.00	1.20	-0.80	5
Modern equipment	6.31	7.08	7.69	1.38	0.62	13
Providing direction to self-navigate the library	6.10	7.20	8.20	2.10	1.00	10
Resources added to library collections on request	8.00	9.00	9.00	1.00	0.00	1
Timely document delivery / interlibrary loan						0
Space for students to study and work in groups	7.13	8.50	7.88	0.75	-0.63	8
Adequate hours of service	7.09	7.82	7.59	0.50	-0.24	34
Providing me with the information skills I need for my work or study	7.14	8.29	8.14	1.00	-0.14	7
The 24 by 7 live chat service provides information assistance when and where I need it						0
Availability of timely help when using my library's electronic resources	8.00	8.00	6.00	-2.00	-2.00	2
An online catalog that is user-friendly for finding materials	7.13	8.13	7.88	0.75	-0.25	8

This table displays the standard deviations of 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	1.50	1.50	1.73	1.50	0.50	4
Availability of online help when using my library's electronic resources	2.06	2.14	2.01	0.96	1.18	13
Informing me of useful library services	1.99	1.39	1.82	2.10	1.61	43
Librarians teaching me how to access or manage information	1.29	1.25	0.92	1.60	1.51	10
An environment that facilitates group study and problem solving	2.08	1.54	1.55	2.45	1.87	17
Ease of use of electronic resources	1.44	1.36	1.65	2.00	1.65	46
Providing help when and where I need it	2.04	1.95	1.50	1.77	1.27	7
Teaching me how to access, evaluate, and use information	1.95	0.70	2.40	2.44	2.27	14
Making me aware of library services	1.38	1.40	1.44	1.34	1.54	24
Subject bibliographies	1.98	1.55	1.16	1.69	1.51	8
Library orientations / instruction sessions	1.77	1.91	1.46	1.82	1.94	38
Electronic resources matching my information needs	0.58	1.00	2.08	1.53	1.53	3
Fine and replacement policies that are reasonable	1.91	1.14	1.51	0.76	0.53	14
Contribution to the intellectual atmosphere of the campus	1.77	1.32	1.53	1.90	1.72	24
Ready access to computers / Internet / software	1.66	1.52	1.75	1.96	1.87	133
Library staff teaching me how to find information	1.59	1.52	1.30	2.08	1.98	27
Using the library for research	3.08	0.55	1.47	3.14	1.51	6
Online tutorials and other learning tools that help me use library resources and services independently	2.10	1.25	1.56	1.96	1.30	13
Creating, editing, and publishing with digital media in appropriate library spaces	2.03	1.89	2.12	2.26	2.03	8
Accessing library resources via the VLE	2.08	1.53	1.00	2.89	2.08	3
Information provided by the Careers Service						0
Convenience of borrowing books	1.67	1.18	1.68	1.64	1.57	16
Support provided by the library to access course materials (textbooks, readings, online resources)	2.12	2.12	4.24	2.12	2.12	2
Ease of use of library-provided electronic books	0.00	1.41	0.71	0.71	0.71	2
An online service that allows me to search easily for journal articles						1
Provision of space and facilities that allow me to use my own laptop and/or other mobile device	1.77	0.82	1.41	1.70	1.57	10
Access to photocopying and printing facilities	1.66	1.46	1.87	1.97	1.80	169
The main texts and readings I need for my work	1.24	1.08	1.51	1.42	1.36	48

Language: Dutch, English (British), English (Dutch), English (Fr)
 Institution Type: College or University
 Consortium: European College and University Libraries
 User Group: Staff

Provision of information skills training	0.69	0.95	1.15	0.90	0.49	7
Helpfulness in dealing with users' IT problems	1.41	1.26	1.33	1.65	1.60	77
Availability of subject specialist assistance	2.02	1.71	1.34	2.17	1.64	33
Library staff teaching me how to effectively use the electronically available databases, journals, and books	1.51	1.22	1.04	1.75	1.50	30
Making me aware of library resources and services	1.80	1.69	1.60	1.79	1.58	129
Teaching me how to locate, evaluate, and use information	1.74	1.32	1.67	1.17	0.88	9
Convenient service hours	1.64	1.71	2.02	1.76	1.50	36
Ability to navigate library Web pages easily	1.56	1.32	1.62	2.00	1.95	115
A center for intellectual stimulation	0.99	1.23	1.59	1.62	1.02	14
Access to archives, special collections	1.02	2.19	2.60	2.61	1.88	16
Browsing library materials in the stacks	1.47	1.22	1.49	1.76	1.03	11
Convenient access to library collections	1.85	1.06	1.62	1.86	1.73	15
Convenient business hours	1.87	1.29	1.80	1.97	1.84	170
Enabling me to find information myself 24 hours a day	1.86	1.56	0.98	1.82	1.46	48
Facilitating self-directed research	1.36	1.05	1.30	1.22	1.03	13
Instruction in library use, when needed	1.46	0.94	1.12	1.29	1.20	17
Librarians providing help that both assists in finding the information needed now, and improves skills useful in future information searches	1.64	0.84	1.41	2.86	1.79	5
Modern equipment	2.02	1.80	1.65	2.14	1.19	13
Providing direction to self-navigate the library	1.20	0.92	1.23	1.20	1.56	10
Resources added to library collections on request						1
Timely document delivery / interlibrary loan						0
Space for students to study and work in groups	1.64	0.76	0.99	1.04	1.19	8
Adequate hours of service	1.52	1.19	1.21	1.69	1.78	34
Providing me with the information skills I need for my work or study	1.57	1.11	1.21	1.83	0.90	7
The 24 by 7 live chat service provides information assistance when and where I need it						0
Availability of timely help when using my library's electronic resources	0.00	0.00	1.41	1.41	1.41	2
An online catalog that is user-friendly for finding materials	0.99	0.99	0.35	1.04	1.16	8

8.5 General Satisfaction Questions Summary for Staff

This table displays the 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 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.	7.47	1.35	856
In general, I am satisfied with library support for my learning, research, and/or teaching needs.	7.08	1.49	908
How would you rate the overall quality of the service provided by the library?	7.29	1.26	1,731

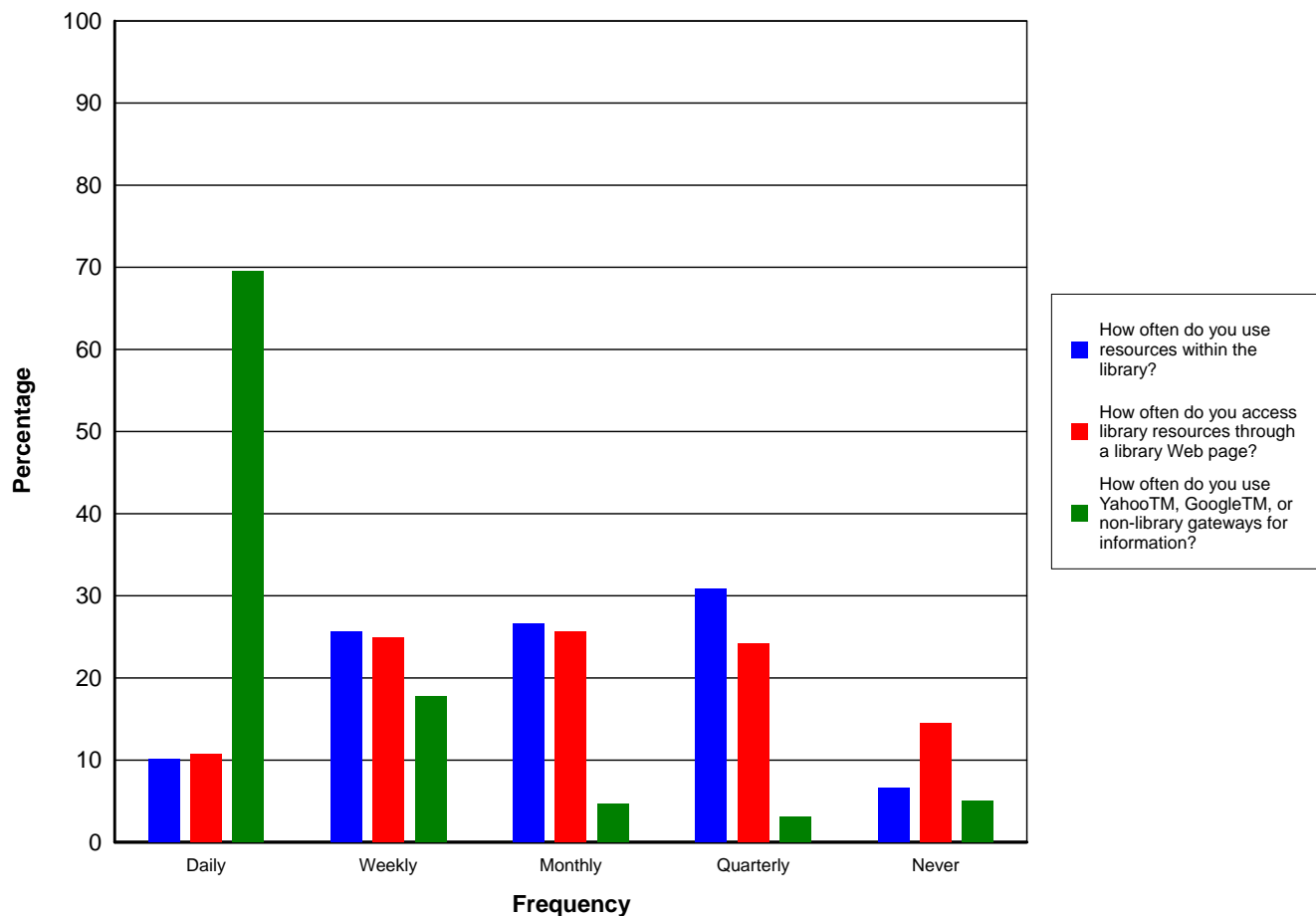
8.6 Information Literacy Outcomes Questions Summary for Staff

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 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.	6.18	1.74	660
The library aids my advancement in my academic discipline or work.	6.82	1.63	720
The library enables me to be more efficient in my academic pursuits or work.	6.82	1.65	756
The library helps me distinguish between trustworthy and untrustworthy information.	6.15	1.66	758
The library provides me with the information skills I need in my work or study.	6.82	1.54	669

8.7 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 within the library?	175 10.11%	445 25.71%	461 26.63%	535 30.91%	115 6.64%	1,731 100.00%
How often do you access library resources through a library Web page?	185 10.69%	431 24.91%	444 25.66%	419 24.22%	251 14.51%	1,730 100.00%
How often do you use Yahoo™, Google™, or non-library gateways for information?	1,202 69.48%	307 17.75%	80 4.62%	53 3.06%	88 5.09%	1,730 100.00%

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 - Present 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 2010 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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