Making Online Instruction Count: Statistical Reporting of Web-Based Library Instruction Activities

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**Original Citation**

Making Online Instruction Count: Statistical Reporting of Web-Based Library Instruction Activities

Tim Bottorff and Andrew Todd

Statistical reporting of library instruction (LI) activities has historically focused on measures relevant to face-to-face (F2F) settings. However, newer forms of LI conducted in the online realm may be difficult to count in traditional ways, leading to inaccurate reporting to both internal and external stakeholders. A thorough literature review is combined with the results of an investigative survey to reveal the current status of reporting such activities. The results reveal considerable confusion about the reporting of Web-based LI activities, even though a number of librarians are devoting significant amounts of time to this important and growing area of librarianship.

In a higher education environment where assessment and accountability are frequent watchwords, accuracy in the reporting of library statistics is an important and timely goal. Service and usage statistics are frequently collected and reported to explain the library’s work to campus administrators and accrediting agencies, to compare with other institutions, and to inform individual work assignments, departmental resource allocations, and funding and advocacy efforts. To this end, libraries measure everything from the most basic indicators of use (such as gate count, circulation transactions, study room reservations) to much more complex activities (such as reference questions, electronic serial holdings, user service preferences). In the realm of library statistics, the counting and reporting of library instruction has thus far received relatively little attention. Since library instruction is one of the areas where the academic library most directly interfaces with students and faculty members, this issue deserves greater attention.

Until recent years, most academic library instruction was conducted in face-to-face (F2F) environments. Statistical reporting of LI activities has tended, therefore, to focus on measures relevant to F2F settings: for example, librarians dutifully report the number of classes and number of students who participate in “one-shot” LI sessions. However, newer forms of LI conducted in the online realm, particularly if the instruction is asynchronous, may be difficult to count in traditional ways. Many librarians now provide LI through...
a myriad of online delivery mechanisms, from those “embedded” in classes through courseware (such as WebCT or Moodle), to those providing instruction through tutorials and other online instructional tools, to those teaching online for-credit library research courses, and so on. In many such forms of LI, the librarian may have multiple (virtual) interactions with students over the course of a semester— or no direct interaction at all, in the case of a tutorial—making it difficult, if not impossible, to count “classes” and “students” in the traditional manner.

The inability to accurately account for these types of instructional activities may have significant implications, since the way librarians quantify and report their activities can affect both internal and external sources of administration and funding.

The present study reviews the literature related to the reporting of library instruction statistics, as well as some of the wider literature on LI assessment and effectiveness, and then reveals the results of an investigative study on the topic. It is hoped that this study may lead to the development of standards that will help academic librarians to more accurately account for LI activities conducted in the online realm.

**Literature Review**

While online LI activities are increasingly becoming key components of many academic libraries’ overall instruction plans, comparatively little has been written about the accounting or reporting of such activities. Therefore, the following review of the literature casts a wide net, examining some related areas of LI research (such as assessment or effectiveness) as well as professional guidelines related to statistical reporting.

Academic librarians have been offering forms of online LI for at least the better part of two decades. Vishwanatham, Wilkins, and Jevec, for example, described LI efforts in the early to mid-1990s using e-mail, FTP, gopher, and the nascent World Wide Web.1 And by the late 1990s, several authors were offering tips on creating and using Web-based tutorials, on providing instruction through courseware, and on developing online for-credit research courses.2 Dewald briefly mentioned the difficulty of tracking usage of online tutorials in a 1999 piece, but most of the early articles were practical primers focused on the pedagogy and mechanics of setting up online instructional tools.3 In the intervening years, the use of various forms of online LI has become more commonplace, but recent reviews have noted that there has still been very little written about the tracking or assessment of online tutorials or other forms of online LI.4

As early as 2000, Kyrillidou noted that a decline in LI statistics among Association of Research Libraries (ARL) member institutions was “possibly… a function of the introduction of distance learning technologies in the delivery of library instruction.”5 However, in the years since, the professional literature has not suggested a good means for tracking these new technologies or accounting for the resulting statistical differences. Other authors have since mentioned problems with counting instructional activity delivered through tutorials or through blogs.6 Several researchers writing about online embedded LI have touted the ability of most courseware products to track hits, time spent on pages, and other metrics, but actual examples of how the resulting data could be used have not been offered.7

Scherrer and Jacobson suggested a different approach in advocating for the creation of new measures to account for librarians’ changing roles in the twenty-first century.8 Although Scherrer and Jacobson’s focus was not only on LI, but rather on the professional duties of academic health sciences librarians, their scheme did include mention of various LI activities. Noting that “while librarians have continually redefined and changed their roles, the measures by which librarians report and evaluate their activities have not sufficiently changed to reflect these new realities,” they proposed devel-
oping new measures in categories such as Consultation, Outreach, and Web Authoring. The Consultation category, for example, would include in-depth research appointments, since “point-of-need instruction is currently an unreported figure, because it does not accurately fit in either the ‘reference’ or the ‘instruction’ category” of library statistics. And the Web Authoring category might include activities such as “designing Web pages, creating tutorials, developing pathfinders, and participating in the development of new products.” In a model such as Scherrer and Jacobson propose, various online LI activities might be accounted for in some fashion, albeit in categories that differ from traditional ones.

In recent years, library research on LI activities has tended to focus more on measuring service quality from the user’s point of view, or on user outcomes and the effectiveness of various forms of instruction. Researchers have written extensively on LibQUAL+ and other tools for measuring user satisfaction, for example. Such large-scale instruments tend not to focus on LI in detail, since they are geared more toward measuring overall levels of satisfaction with library services. Another large body of literature deals with assessment of LI at a programmatic level, focusing on quantifiable student outcomes and information literacy skill acquisition, usually through the use of testing instruments such as the Standardized Assessment of Information Literacy (SAILS), the Educational Testing Service’s iSkills test, or James Madison University’s Information Literacy Test (ILT). These tests can be used to test information literacy skill acquisition broadly, but so far few, if any, studies have compared student achievement on such tests based on multiple methods of delivery for LI. A few studies have examined whether online or F2F instruction is generally more effective, as well as the preferences of users with regard to instructional delivery methods. Most researchers have concluded that method of delivery (F2F vs. online vs. mixed) appears not to greatly impact the effectiveness of or satisfaction with LI, indicating that properly planned and executed online LI activities can be suitable adjuncts or substitutes for F2F LI.

Research in all of the above areas is vital to the continued success of academic libraries, especially in a higher education environment where accountability and assessment are increasingly important. There can be no doubt that academic librarians need to continue to explore issues of user satisfaction, the measurement and benchmarking of information literacy skills, and the effectiveness and perception of various forms of LI. Yet the related need for libraries to maintain basic statistics that accurately reflect the nature of their daily duties and interactions (including in the online realm) is an area that appears to have received comparatively little attention in the professional library literature.

Guidelines or standards published by library organizations comprise another important source of information about the statistical reporting of LI activities. For example, the Association of Research Libraries’ (ARL) guidelines on instruction statistics stipulate counting only the number of “sessions” (classes) conducted and the number of “participants” (students) taught. Therefore, in the longstanding ARL statistical model, the typical one-shot F2F LI situation is counted as one “session,” and the number of students in the course is counted to determine the number of “participants.” It is not clear how these guidelines could be used to account for asynchronous forms of online LI, such as the case where a librarian is embedded in a class through courseware and in which the librarian may interact with the students multiple times and in multiple ways through a semester. The ARL guidelines do address how to count instructional situations in which a librarian may meet F2F with the same group of students multiple times over the course of a semester—each new class meeting (“session”) is counted separately, but the number of students
Such a methodology still may not fit many forms of online LI, including LI delivered through sequenced tutorials. In general, the ARL standards certainly never explicitly mention online LI; indeed, the wording of the guidelines appears to be geared only toward traditional F2F LI activities.

The ARL statistics first included numbers on LI activities in a supplemental survey in 1991 and then as part of the full survey in 1994. Since then, the ARL metrics related to LI statistics have not changed, despite significant changes in technologies and methodologies in the intervening years. Recent editions of the statistics have pointed out that “a simple count where each reference question gets a single ‘tally’ cannot capture the varying dimensions and growing complexities of reference services” (emphasis added), though no solutions or new approaches have been offered, nor has any mention been made of similar complexities with regard to instruction activities. A recent ARL communication stated that the “ARL Statistics and Assessment Committee is currently engaged in developing new quantitative and qualitative indicators and indices,” but updated methods for counting and describing LI activities were not mentioned as part of the initiative.

The traditional ARL statistical guidelines have been widely used, even in many non-ARL institutions, almost to the point of being the only existing standards in the field. For example, the statistics produced by the Association of College and Research Libraries (ACRL)—which offers data from more than 1,500 academic libraries of all sizes in the United States—also uses the ARL questionnaire for the collection of its data. Therefore, the ACRL similarly reports only number of “sessions” and number of “participants” for LI, making no provision for forms of online LI that do not fit neatly into those categories. Reporting libraries are allowed to provide footnotes, offering additional explanation about statistics when necessary, and a very small number of libraries over the years have used the footnotes to mention the inclusion or exclusion of online LI activities in their reported statistics. For the most part, however, the reader of ACRL statistics can only assume that the LI numbers reported represent mostly traditional, F2F LI activities.

Another major source for cross-comparisons of data among academic libraries is the Library Statistics Program (LSP) of the National Center for Education Statistics (NCES), part of the Integrated Postsecondary Education Data System (IPEDS). The LSP statistics, similar to the ARL and ACRL statistics, collect information only on the number of “presentations” to groups and on “total attendance” at these presentations. The LSP instructions for submitting LI numbers are similar to those used for the ARL and ACRL surveys, although the LSP instructions do add that both “self-paced tutorials” and “web-based presentations” may be included in the data; however, neither of these types of presentations is further defined and it is not clear how many libraries actually report such activities in their figures. In fact, comparisons between the LSP data and ARL or ACRL data suggest that most libraries simply report the same LI statistics (and most other statistics) to all three sources.

Taken together, the existing literature and guidelines on LI statistics provides little insight into the problem of accounting for and reporting online LI activities. A timely and thoughtful local taskforce on statistical reporting at the authors’ institution similarly revealed more questions than answers. Therefore, in an effort to go beyond the existing literature, opinion, and experience in the realm of statistical reporting of online LI activities, the authors conducted an investigative survey on the topic.

Methodology
The authors developed a fourteen-item, voluntary, anonymous survey designed to understand how academic librarians at a wide variety of academic libraries are
reporting online LI activities in practice.

A small number of demographic questions about respondents’ institutions (funding status, highest degree granted, and number of students) were included to ensure that the survey reached a representative cross-section of academic librarians from different types and sizes of schools.

The survey questions were designed to gather data on how academic librarians report the following activities: 1) LI delivered through online courseware; 2) LI delivered through online tutorials; and 3) LI delivered through online for-credit research courses in which a librarian is the instructor of record. The first two activities (LI through courseware and through tutorials) had been identified by librarians at the authors’ institution as being the two most prevalent types of online LI that were not being measured fully by existing reporting standards; the third activity (online for-credit LI) was identified by early reviewers of the survey instrument as another area of possible inconsistency with current reporting standards.

Background information and definitions for key terminology (such as “embedded” or “courseware”) were also provided to respondents. Since this was the first survey to examine these topics in depth, plenty of opportunity was also provided for respondents to provide comments and feedback. A link to the full survey instrument is provided in the notes.

After the survey questions were developed and tested, the study was submitted to the authors’ Institutional Review Board (IRB) for approval, since the research involved surveying human subjects. Once IRB approval was secured, the survey was mounted on a Web site and the results were set up to be collected in a database.

In an effort to gather responses from a wide swath of the academic library community, the survey invitation was sent to a variety of electronic mailing lists devoted to public service librarianship. Lists targeting both large and small institutions were included, since the authors wished to examine results from a broad range of academic institutions. The professional lists targeted were:

- ACRL-CLS (the list of the College Libraries section of ACRL)
- ACRL-ULS (the list of the University Libraries section of ACRL)
- ILI-L (the Information Literacy Instruction Listserv)
- OFFCAMP (the list of the Off-Campus Library Services group)
- RCL-DG (the Regional Campus Libraries Discussion Group)
- RUSA-L (the list of the Reference and User Services Association)

The authors sent invitations to the above lists, with instructions for the survey to be completed within a three-week window. The invitation solicited participation from academic librarians who teach library instruction classes, develop instructional tutorials or other instructional tools, or are involved in the collection or reporting of library instruction statistics. A second message was sent approximately one week before the deadline to remind potential participants of the final deadline. After the survey deadline passed, the authors closed the survey and retrieved the results from the database for analysis.

Results

The survey garnered 310 responses, 307 of which were associated with academic libraries and therefore met the criteria for inclusion in the results. The total number of respondents to each question varies slightly per IRB guidelines, which stipulate that respondents do not have to answer every question.

The respondents represented a cross-section of academic librarianship, including a good mix of librarians from public and private institutions, small and large institutions, and institutions granting different levels of degrees, as shown in table 1. Significantly, as depicted in table 2, 93 percent of the 307 respondents still teach LI classes in F2F formats. But almost 50 percent (145) also teach LI online or as an embedded librarian, and more than two-
thirds (218) are involved in developing online tutorials or other materials designed to be used in online LI. In addition, a sizable number of the respondents are involved in the collection/compilation (143) or reporting (224) of LI stats at their institution.

The majority of the questions on the survey were designed to determine how librarians account for different types of online LI activities. The results reveal a great deal of inconsistency in how different library systems count and report such activities.

For example, respondents were asked to report how they count “an activity where a librarian is embedded in a course through courseware,” and the results indicated a wide variety of approaches. Roughly 32 percent (97) of the aggregate (n=305) admitted that their library does not currently provide any embedded library instruction through courseware. Of the remainder (n=208), responses included counting this activity in a wide variety of ways, or not counting it as instruction at all, as depicted in figure 1.

Some respondent comments indicated that the various accounting methods may be partially due to varying degrees of embedding; for some courses, librarians merely monitor a few discussion boards; while in others, librarians create modules, grade assignments, or otherwise take a much more active role. However, many comments also reflected a great deal of general confusion or uncertainty about counting these activities, as evidenced by comments such as these: “we haven’t yet

<table>
<thead>
<tr>
<th>TABLE 1</th>
<th>Demographics of Respondents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary Funding Status of Parent Institution (n=305)</td>
<td></td>
</tr>
<tr>
<td>Public</td>
<td>Private</td>
</tr>
<tr>
<td>64%</td>
<td>34%</td>
</tr>
<tr>
<td>Highest Degree Granted by Parent Institution (n = 307)</td>
<td></td>
</tr>
<tr>
<td>Associate</td>
<td>Baccalaureate</td>
</tr>
<tr>
<td>15%</td>
<td>12%</td>
</tr>
<tr>
<td>Number of Students at Institution (n = 305)</td>
<td></td>
</tr>
<tr>
<td>0–999</td>
<td>1,000–2,999</td>
</tr>
<tr>
<td>6%</td>
<td>18%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TABLE 2</th>
<th>Level of Involvement in Library Instruction (n = 307)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Activity (Multiple Responses Allowed)</td>
<td>Percentage</td>
</tr>
<tr>
<td>Teach F2F library instruction (LI) sessions</td>
<td>93%</td>
</tr>
<tr>
<td>Teach library instruction sessions online and/or serve as an embedded librarian</td>
<td>47%</td>
</tr>
<tr>
<td>Coordinate/schedule library instruction sessions at my institution</td>
<td>59%</td>
</tr>
<tr>
<td>Develop online tutorials or other materials designed to be used in online instruction</td>
<td>71%</td>
</tr>
<tr>
<td>Report statistics related to library instruction at my institution</td>
<td>73%</td>
</tr>
<tr>
<td>Collect/compile statistics related to library instruction at my institution and report them to others</td>
<td>47%</td>
</tr>
<tr>
<td>Other</td>
<td>4%</td>
</tr>
</tbody>
</table>
standardized ways to record statistics on this activity,” or “there is no formal policy on this yet,” or “we’re still wrestling with this question.” And many respondents commented on how the mere activity of taking the survey has raised their awareness of the issue: “I better look into this more since I am responsible for the statistics here,” or “I never thought about this particular metric before! Thank you for reminding me that it does not currently ‘get counted’ within the current realm of statistical collection in my library.”

Similarly varied results were received on the question dealing with counting library instruction delivered through online tutorials. Of the original 303 respondents who answered this question, 39 (13%) indicated that their library does not currently offer library instruction through online tutorials. The remaining 264 respondents indicated a wide variety of possible approaches to counting this activity, as shown in figure 2.

Various comments reflected the same uncertainty related to counting tutorials as those concerning embedded instruction. One respondent stated: “I would typically count any session done with Synchronous sessions (via Learnline) as one session equivalent to an on campus face to face session. This the library agrees to. However, I am also building tutorials (both Flash and via web page on Moodle). Neither have been estimated to count towards instruction.” Others alluded to the difficulty of getting accurate statistics on the use of online tutorials. According to one respondent, “I create tutorials and add links to the tutorials on the library web page but we have no way to determine how many users have ever viewed or completed a tutorial.” Another comment mentioned a dual reporting system: “Because we are an ARL library and online instruction does not meet the definition of instruction used in the ARL Statistics, we maintain two counts of the
number of sessions and participants— ARL and non-ARL."

Respondents were also surveyed about their reporting methods related to online for-credit library research courses. Less than a third (98) of the 304 respondents who answered the question are currently offering this service. However, this small cohort reported a wide variety of methods of accounting for them, as depicted in figure 3. Comments related to counting LI delivered through online for-credit

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**FIGURE 2**
Counting Online Library Tutorials (n = 264)

<table>
<thead>
<tr>
<th>Method Description</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Counted as a one-shot F2F LI session</td>
<td>8%</td>
</tr>
<tr>
<td>Counted as multiple F2F LI sessions</td>
<td>2%</td>
</tr>
<tr>
<td>Differently from F2F</td>
<td>23%</td>
</tr>
<tr>
<td>Not counted as instruction</td>
<td>50%</td>
</tr>
<tr>
<td>Not sure</td>
<td>11%</td>
</tr>
<tr>
<td>Other</td>
<td>5%</td>
</tr>
</tbody>
</table>

---

**FIGURE 3**
Counting Online For-Credit Library Courses (n = 98)

<table>
<thead>
<tr>
<th>Method Description</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Counted as a one-shot F2F LI session</td>
<td>15%</td>
</tr>
<tr>
<td>Counted as multiple F2F LI sessions</td>
<td>15%</td>
</tr>
<tr>
<td>Not counted as instruction</td>
<td>18%</td>
</tr>
<tr>
<td>Not sure</td>
<td>20%</td>
</tr>
<tr>
<td>Other</td>
<td>31%</td>
</tr>
</tbody>
</table>
library research courses included “We count this separately, but it is not part of our general library instruction statistics” and “This is new and we haven’t worked out reportage yet.”

Another major trend emerged from the survey. A majority of respondents reported that online LI activities—whether in the form of embedded instruction, online tutorials, or online for-credit research courses—tend to require a greater time commitment than traditional, F2F instruction. For example, one question asked, “As compared to an average course in which you provide face-to-face library instruction (including preparation), how much time do you dedicate to an average course in which you are embedded through courseware?” Fifty-one percent (151) of the 295 respondents who answered this question indicated that they cannot compare the two activities—for example, because they do not do one or the other (or both) activities. Of the remaining respondents (n=144) who teach F2F LI classes and participate in online embedded LI, 58 percent (84) indicated that being embedded in an online course requires “slightly more” or “significantly more” time than a typical F2F session, and only 19 percent (27) indicated that online embedded LI requires “slightly less” or “significantly less” time as illustrated in figure 4.

Comments related to the perception of time involved with online embedded library instruction activities compared to F2F LI sessions included the following: “compared to one-shot face-to-face instruction sessions, I spend more time preparing for classes in which I am embedded” and “[being embedded] is more work than face-to-face sessions...[and] more time-consuming.” One respondent said that “the activities that you describe are consuming so much of our time... that we are hiring an additional instruction librarian.”

### FIGURE 4
Perceived Time Devoted to Online Embedded Instruction (n = 144)

<table>
<thead>
<tr>
<th>Perception</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Significantly less</td>
<td>10%</td>
</tr>
<tr>
<td>Slightly less</td>
<td>9%</td>
</tr>
<tr>
<td>About the same</td>
<td>23%</td>
</tr>
<tr>
<td>Slightly more</td>
<td>19%</td>
</tr>
<tr>
<td>Significantly more</td>
<td>39%</td>
</tr>
</tbody>
</table>

As compared to an average course in which you provide face-to-face library instruction (including preparation), how much time do you dedicate to an average course in which you are embedded through courseware?
Respondents were also asked how much time they dedicated to an average online tutorial as compared to an average face-to-face library instruction session (including preparation).

Responses to this question were similar to those related to the perception of time involved with embedded instruction, indicating that the majority of respondents felt that they invested more time in an average online tutorial than an average in-person library instruction class (see figure 5). According to one respondent, “There is a lot of time put into the [initial] development of the tutorials.”

On the other hand, many respondents noted that the time and work involved in online LI activities is often at the point of creation, after which the time devoted to them can sometimes be less than for F2F activities: for example, “In the beginning [being embedded] is time consuming but once the course is up and working... the time spent maintaining it falls off” and “it takes significantly more time to create a tutorial than it does to prepare and lead one face-to-face library instruction session; of course, once the tutorial is created, it requires significantly *less* time to deliver it to students than it does to deliver face-to-face instruction.”

As stated previously, however, the majority of librarians who could compare both activities said that online LI, as compared to its F2F counterpart, takes more time. Another illustration of this point is the response to this question: “As compared to an average face-to-face for-credit library course (including preparation), how much time do you dedicate to an average for-credit library course that utilizes courseware or some other online delivery mechanism?” Figure 6 shows that more than two-thirds (41) of the 60 respondents who indicated that they teach online for-credit library courses feel that they spend more time on an average for-...
Making Online Instruction Count

less pronounced in the case of LI delivered through online tutorials, perhaps because many (though certainly not all) online tutorials are designed to be “just in case” tools that are not tied to particular courses or groups of students; in addition, gathering reliable statistics on online tutorials is often problematic, unless a quiz or other endpoint provides a reliable mechanism for counting usage.

Taken together, the wide degree of variance in the reporting of online LI activities may be enough to cast doubt on wide-scale comparisons of statistics across institutions, such as that done by ACRL, ARL, or NCES. Without clearer reporting guidelines that address some of the complexities associated with online forms of LI, there will likely continue to be little consistency in how libraries report these statistics.

A sizable number of respondents also reported that online LI activities require a significant time commitment, often equal

credit library course than an average F2F for-credit library course.

Some comments cited additional time-consuming features associated with online LI, beyond those involved in the initial creation, such as grading assignments or interacting with discussion boards throughout a semester.

Discussion

The survey results indicate considerable variance and confusion about the statistical counting and reporting of online LI activities in academic libraries. The common activity where a librarian participates in a class through courseware, for example, is counted as a one-shot LI session at some libraries, as multiple LI sessions at others; it is not counted as instruction at all at some libraries, and it “may or may not” be counted at others. Similar variance was observed with the reporting of online, for-credit research courses. The variability was

As compared to an average face-to-face for-credit library course (including preparation), how much time do you dedicate to an average for-credit library course that utilizes courseware or some other online delivery mechanism?

<table>
<thead>
<tr>
<th>Perception</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Significantly less</td>
<td>2%</td>
</tr>
<tr>
<td>Slightly less</td>
<td>3%</td>
</tr>
<tr>
<td>About the same</td>
<td>27%</td>
</tr>
<tr>
<td>Slightly more</td>
<td>20%</td>
</tr>
<tr>
<td>Significantly more</td>
<td>48%</td>
</tr>
</tbody>
</table>
to or in excess of that required for F2F LI activities. Few could doubt that providing library services in the online environment has dramatically changed modern librarianship in myriad ways, and undoubtedly most library administrators evaluate and recognize librarians based on these new realities. Nonetheless, standards or measures that more accurately account for typical librarian activities could be useful for both individual librarians and administrators, not to mention external stakeholders who may be less familiar with the realities of modern academic librarianship.

Many respondents did indicate that awareness of issues related to the reporting of instructional statistics is heightening. A few respondents mentioned institutional-level committees or guidelines designed to address the tricky reporting issues associated with online LI activities. Others noted that the act of taking the survey itself prompted them to begin thinking about these issues and to begin conversations about LI statistical reporting at their institutions.

In the future, more research may be needed on various forms of synchronous online LI and the reporting challenges associated with these activities. For example, several respondents mentioned teaching online LI through Wimba, Adobe Connect, or other real-time instructional products. More research might also be needed on the various types of tutorials being produced by librarians (“point of need” vs. “just in case,” standalone vs. course-integrated, and so on) and on the difficulties associated with standardized reporting of such activities. Similarly, for-credit courses may present unique challenges and deserve further study. It remains a point of debate, for example, whether such courses should be considered “library instruction” or, as many respondents to the present survey indicated, in an entirely different category.

Conclusion
Statistics help libraries to tell their “stories”—to explain and justify what they do. Quantifiable measures such as LI statistics can impact individual work assignments, the allocation of resources to departments, communication with internal and external stakeholders, and efforts related to advocacy and funding. Online LI statistics may be particularly important in this regard, since they are trending upward rapidly at many libraries, while several traditional measures—such as circulation and reference statistics—may be growing more modestly or even declining.

At this time, however, a review of the literature suggests that very little attention has thus far been given to the accounting and reporting of online LI activities. And the results of the present survey suggest a substantial amount of confusion and variance regarding the counting of these activities. In addition, the survey results also indicated that a number of librarians are spending a substantial amount of time attending to various forms of online instruction, often equal to or in excess of that required for F2F LI activities.

A recent Sloan Consortium survey reported that “nearly thirty percent of higher education students now take at least one course online” and that “the twenty-one percent growth rate for online enrollments far exceeds the less than two percent growth of the overall higher education student population.” With such remarkable growth trends in online learning, involvement in online LI activities is likely to continue to increase in the future, and librarians therefore need a reliable structure for the reporting of them. Such a structure should ideally be developed by a large national organization representing academic library interests, such as ACRL, ARL, or NCES. In short, all signs point to the need for work on standards or approaches that will help librarians to more accurately and consistently account for LI activities conducted in the online realm.
Notes


9. Ibid., 164, 170.

10. Ibid., 170.

11. Ibid., 170.


17. Ibid.


22. Ibid.


