Statistics usage by French academic libraries: a survey
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Introduction

The digital revolution has taken place. Processing e-resources have become part of everyday life in academic libraries. Today, library management includes monitoring, assessment of usage, and performance measurement. Stakeholders ask for reporting and return on investment. How do academic librarians deal with usage statistics and log files? What do we know about their experience, feedback, needs?

Workshops and seminars, discussions on mailing lists such as lib-stats, SERIALST or lis-e-resources, and surveys provide insight and empirical evidence on the reality of dealing with statistics. However, this knowledge is more or less limited to the UK and US library communities, and we know but little about other, non-English-speaking countries such as France.

Seven years ago, when we published our first article on the COUNTER project and when the French institute for scientific information INIST translated the COUNTER Code of Practice, French academic libraries generally had poor or no experience with usage statistics of online resources. Compared to the UK, uptake of digital resources was delayed because of the language barrier, lack of larger scientific journal publishers, and a rather fragmented landscape of scientific structures and libraries.

In 2012, the situation has changed. Small and medium-sized French universities have merged into large and competitive organizations, and consumption of digital information has increased rapidly and steadily. The French academic consortium COUPERIN established a working group on usage statistics. Two research projects evaluated usage statistics of academic libraries and open archives. France is a partner of the European PEER project. The Lille 3 university organized an international conference.
These projects and initiatives reflect growing awareness of and interest in the topic in France. Nevertheless, what do we know about real methods and processes, best practices, and the problems experienced by librarians?

**Literature review**

Compared to the growing amount of research based on results of the exploitation of usage statistics of digital resources in academic libraries, the small number of articles dedicated to the processing of usage statistics itself is surprising. These studies show that statistics gained importance from about the year 2000. Yet in the beginning, this evolution was slow because of the lack of committed human resources and technical competencies. The second difficulty libraries encountered was missing standards, even if the COUNTER project proposed solutions from 2003–2004. The following years, 2005, 2006 and 2007, were a period of increasing automation of data collection, formatting, preservation, and processing, using tools such as SUSHI, ScholarlyStats, or ERMS.

Publications that are more recent often deal with two topics: technical problems and usage of statistics for decision-making. A recent UKSG seminar underscored the importance of usage statistics for decision-making. Paradoxically, the increasing availability of data, the continuous development of the COUNTER Code of Practice and the financial pressure by governments has produced similar effects and fostered exploitation of these data. Usage statistics contribute to decisions somewhere between 'what could be cancelled' and 'what should be cancelled'. The most recent articles focus on usage statistics as a tool for return on investment analysis (ROI).

Our study is the first in the French-speaking scientific literature to analyse the uptake and usage of statistics in academic libraries.

**Methodology**

Our methodology adapts the 2008 Tennessee survey to the French context. We sent the adapted survey in November 2010 to the digital resources librarians of 87 French academic libraries, in print format, giving them three months to reply (see Appendix).

More detailed than the Tennessee survey, our questionnaire adopts the same structure, with three main sections: the first section is on the library (size, patrons, and subjects); the second section is on the vendor-supplied usage statistics; the third section is on the data processing, tools, and objectives. Most questions are closed but some are open and provide opportunities to add comments, etc., which is important for this kind of exploratory study.

**Table 1. Break-down of French university libraries by subject domain**

<table>
<thead>
<tr>
<th>Size</th>
<th>No. of respondents</th>
<th>Per cent</th>
<th>STM</th>
<th>GMD</th>
<th>SMD</th>
<th>SS&amp;H</th>
<th>Law</th>
<th>ECO</th>
</tr>
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<tbody>
<tr>
<td>&lt;5,000</td>
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<td>6</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>5,000–9,999</td>
<td>6</td>
<td>19</td>
<td>1</td>
<td>4</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10,000–14,999</td>
<td>6</td>
<td>19</td>
<td>4</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15,000–19,999</td>
<td>7</td>
<td>22</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td></td>
<td></td>
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<tr>
<td>20,000–24,999</td>
<td>6</td>
<td>19</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td></td>
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<td>25,000–29,999</td>
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<td>6</td>
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<td>30,000–34,999</td>
<td>2</td>
<td>6</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>35,000–39,999</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td></td>
<td></td>
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<td>40,000–44,999</td>
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<td></td>
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<td></td>
<td></td>
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<tr>
<td>45,000–49,999</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>≥50,000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>32</td>
<td>100</td>
<td>6</td>
<td>9</td>
<td>9</td>
<td>3</td>
<td>2</td>
<td>3</td>
</tr>
</tbody>
</table>
The questions cover the period 2009–2010. The French official definition of ‘users’ globally corresponds to the common ‘academic staff FTE’ in the UK academic environment and includes academics, scientists, PhD (graduate) students, and postdocs. For this survey, we added undergraduates.

Findings
Thirty-two academic libraries replied to the survey. The response rate (37%) is satisfying. The responding institutions represent the whole range of French universities classified in five groups following their dominant scientific domains: STM (sciences, technology, medicine), GMD (grand multidisciplinary) and SMD (small or medium-sized multidisciplinary), SS&H (social sciences and humanities, including arts), Law (law) and ECO (business, including economics and management). Table 1 shows their breakdown by type and size.

The size of the participating universities ranges from 2,500 to more than 36,000 undergraduates, PhD students and scholars. 85% have less than 25,000 students and scholars. To allow direct comparison with Baker and Read, we collapsed these groups into four: <10,000 (8 universities), 10,000–14,999 (6 universities), 15,000–24,999 (13 universities), ≥25,000 (5 universities). Undergraduates represent 85% of the overall population; PhD students represent 11% and scholars 6%.

Publishers and resources
Together, the university libraries subscribed to 538,708 journals (print titles are not included) from 2,071 publishers and aggregators (cumulated). The number of subscriptions ranged from 3,050 to 50,000 titles, with a median of 12,168. 81% of the libraries reported usage statistics beyond 50,000 annual downloads.

We asked the academic libraries for the number of publishers with usage reports. The libraries reported that only 25% of the publishers provide usage statistics. Their number ranged from zero to 55, with a median of 14 (Table 2).

68% of the respondents received monthly reports; annual (39%) or biannual (7%) reports were less frequent. 32% of the libraries received usage reports inconsistently and/or on demand.

Purpose for analyzing usage statistics
Why did academic libraries collect and exploit usage data? The most important reason was the reporting to the ministry who, as the most important funding body, receives annual reports and standard statistics from all academic libraries. Nearly all respondents (97%) mentioned this reason. Another important purpose (90%) was the usage of statistics for acquisition policy decision-making, followed by justification of expenditures (71%). Less important were exploitation of data for training, communication and ‘knowledge of users’ (19%).

Type and format of usage reports
90% of the participants received COUNTER-compliant statistics, in particular the Journal Report 1 (JR1), but also other type of reports (JR1a, JR5, JR2 or JR3, database reports). Nearly half of them (39%) also received usage data that were non-compli-
The usage reports were delivered in different formats, mostly as an Excel spreadsheet (94%) but also in PDF (58%) or in a database (29%) or text format (13%) (see Table 3).

Non-compliant reports were most often supplied in PDF.

Most of the participants reported two or more different formats. Just 19% received their statistics in only one format, e.g. Excel.

**Time spent on usage data management (2009–2010)**

Retrospective estimation of workload probably is not very reliable and difficult to validate. Nevertheless, it may be interesting to gather some global data, especially on relative time allocated to different tasks in processing usage statistics (Table 4).

Librarians reported between 16 and 400 hours spent in 2009 on processing of usage data, with a median of 42 hours. The maximal workload increased with the size of the institution. They spent roughly the same amount of time (27–29%) on downloading, manipulating, and analysing data and less time on reformatting (16%).

**Combining data**

Two-thirds (67%) of the participants declared that they combine usage data from publishers with other data, especially with three different types of data: local usage data derived from log files, e.g. for non-commercial items (scanned items in repositories); information from the licence (number of authorized users, total amount, co-funding, its duration); and data related to the accessed serials (impact factor, subject/discipline).

The purpose was to obtain detailed metrics on preferred items and collections, financial metrics, and data on other than commercial resources.

**Useful statistics and tools**

The most important and useful statistics were the COUNTER Journal Report 1 (JR1) ‘Number of Successful Full-Text Article Requests by Month and Journal’. Other statistics were less frequently mentioned, such as number of downloads and sessions, or the hit parade of most often viewed documents (Table 5).

No participant used an electronic resource management system (ERMS) for the handling of usage statistics (one library was planning to do so), and no one retrieved usage reports via the SUSHI protocol. One library subscribed to a service that delivered their vendor statistics through a single point of access but was not satisfied with the result.

Three libraries only analysed local usage data (log files) from their EZ proxy server or gathered usage data with web analytics soft-
ware, with significant assistance from their IT department.

**Differences between different types of universities**

Related to the disciplinary category of their university, the academic libraries have unequal access to usage statistics. French-language publishers in social sciences, humanities, law and economics often do not provide usage data and even when they do, the statistics are seldom COUNTER compliant. It is therefore not surprising that the SS&H libraries have less access to data, and only 33% of them spend some time on comparing and enrichment of data (Table 6). In comparison, 88% of the SMD libraries and 83% of the STM libraries make comparative analyses between the usage reports from different vendors.

### Table 5. Useful statistics in libraries

<table>
<thead>
<tr>
<th>Librarians</th>
<th>Answers</th>
</tr>
</thead>
<tbody>
<tr>
<td>JR1</td>
<td>25</td>
</tr>
<tr>
<td>COUNTER</td>
<td>6</td>
</tr>
<tr>
<td>JR5</td>
<td>2</td>
</tr>
<tr>
<td>DB1</td>
<td>1</td>
</tr>
<tr>
<td>JR1a</td>
<td>1</td>
</tr>
<tr>
<td>Sessions</td>
<td>6</td>
</tr>
<tr>
<td>Téléchargement</td>
<td>4</td>
</tr>
<tr>
<td>Connexions</td>
<td>2</td>
</tr>
<tr>
<td>Consultations</td>
<td>1</td>
</tr>
<tr>
<td>Hitparade</td>
<td>2</td>
</tr>
<tr>
<td>Origine des consultations</td>
<td>1</td>
</tr>
<tr>
<td>Affichage document</td>
<td>1</td>
</tr>
<tr>
<td>Back files</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>53</td>
</tr>
</tbody>
</table>

Following the survey results, the estimated median time the libraries spent per year on acquisition and processing of usage data shows a significant variation. The SS&H, law, economics and business libraries spend only 37 hours per year on this activity, STM and SMD campus libraries spend 70 hours per year while the libraries of big and medium size multidisciplinary campus spend 210 hours per year on acquisition and processing of usage reports.

### Summary of findings: discussion

Only 25% of the publishers are reported to provide statistics. Such a low percentage is not linked to the publishers’ size but is explained by the fact that the majority of French and francophone publishers – often in humanities and social sciences – do not dispatch statistical data. This problem mainly concerns the libraries dedicated to law, letters, and social sciences. The STM libraries are less affected, since they subscribe to the most important international scientific publishers. This phenomenon results in great inequalities in the French university library network.

Academic libraries generally accepted the COUNTER Code of Practice as a standard; in particular, the JR1 format is valued as an essential indicator. Librarians feel that dealing with standardized and comparable data...
is very helpful for their work. Nevertheless, they also criticize the occasionally poor quality of vendors’ statistics, e.g. errors such as wrong customer ID or unexplained abnormal activity figures, unstable title bundling, forbidden access to usage reports, etc. Some of them have even started to question the reliability of COUNTER data produced by some platforms.

This may partly explain why at least half of them collect and process non-COUNTER-compliant statistics, such as reports on sessions and information-seeking characteristics such as form of navigation or search approach. Sometimes, the analysis of local data and log files is intended to reduce a library’s dependence on vendors and, furthermore, to control their data.

The survey confirms Baker and Read’s findings on lack of time spent on usage statistics. On average, French librarians say they spend less time than their US colleagues (1–2 hours per week). This lack of time – even if the estimated time may be subjective and biased – is a cause of frustration and dissatisfaction, especially in STM and multidisciplinary academic libraries. Not only have the usage statistics increased the librarians’ workload but also they feel that they cannot carry out the data analysis as they would like or should do.

The quantitative methodology of our survey provides tendencies while interpretation is not always easy. Even so, most of the results seem to confirm the findings of Baker and Read. Furthermore, the delay of the survey – three months – allowed for a large number of detailed answers to open questions and comments to closed questions. Nevertheless, some answers obviously need more investigation – for example, the number of subscribed journals because the given figures appear overestimated or may include other type of documents.

Conclusions
Six years after the first publication on COUNTER in France, the findings of our survey seem to be encouraging as they clearly show that the usage statistics have become part of the daily work of most of the academic librarians. However, they also show the limits and indicate what needs to be done to progress:

1. French academic librarians are short of usage statistics for a significant part of the subscribed resources. Especially many French publishers do not provide data. This partial availability of information limits the interest of metrics and dashboards.

2. French academic librarians often feel isolated and complain of missing opportunity for training and exchange. So far, there are no workshops or seminars on usage statistics, no discussion list or website such as the NESLI and JISC Journal Usage Statistics Portal initiative.

3. The lack of time, the ‘do-it-yourself’ character of librarians’ work and their dependency on the vendors’ data heavily affects the value they can add to the statistics. Globally, French academic librarians feel frustrated with too much work for a rather unsatisfying outcome.

4. Tools, procedures and data formats should be adapted to the French situation, in particular they should take into account the specific needs expressed by the French Ministry of Higher Education for the academic libraries’ annual activity reports.

Recommendations for further studies
Our findings provide first empirical evidence on the handling of usage statistics in French academic libraries. In order to gain further insight, we need qualitative studies on work organization, job skills and expertise, and best practices.

We also need studies on digital resources other than e-journals, such as e-books, institutional repositories, or datasets, and these studies should distinguish between commercial resources and non-commercial information, e.g. grey literature and documents available through open access.

The standardization of usage data needs more communication and promotion, and this promotion should include the development of efficient tools and procedures. That is why the French academic consortium COUPERIN recently launched a more detailed follow-up study. Their first results largely confirm our own. Furthermore,
COUPERIN works on a French solution of a journal usage statistics portal, together with MIMAS and Cranfield University. The project should be completed in 2012.

Appendix: Survey on electronic journals usage statistics

I The University Library

1 What is the scope of your audience?
   - Undergraduate and graduate students
   - Postgraduate students
   - Academics

2 How many research laboratories are located on your campus (including combined laboratories)?

3 The library currently subscribes to how many e-journal titles?
   - … titles

4 What is the current FTE at your institution?
   - From 0 to 5000: …
   - From 5000 to 10,000: …
   - From 10,000 to 15,000: …
   - From 15,000 to 20,000: …
   - From 20,000 to 25,000: …
   - From 25,000 to 30,000: …
   - From 30,000 to 35,000: …
   - From 35,000 to 40,000: …
   - From 40,000 to 45,000: …
   - From 45,000 to 50,000: …
   - 50,000 or more: …

II Usage Data (for e-journals)

5 Number of vendors to which your library is subscribed?: …

6 & Out of the previous number – see 6) – How many vendors provide reports for e-journals?: …

7 How often?
   - Weekly
   - Monthly
   - Quarterly
   - Semestrially
   - Annual
   - Other (specify): …

Which reports are provided?: …
In which format (PDF, txt, xls, …): …

III Manipulating and Analyzing Data

9. For what purpose are you collecting usage data and analyzing it?:
   - Local and national reports (ESGBU, ERE…)
   - Collection management (subscriptions, cancellations)
   - To justify expenditures
   - Other (Specify): …

Which reports are the most useful to you and why?: …
Is there data not included in the reports that you would like to obtain? For what purpose?: …

10 The professionals workers involved in the following tasks belong to which categories (A, B or C)?
   - Contacting vendors: …
   - Downloading: …
   - Consolidation and analysis: …

11 In 2009, how many hours did you spend for:
   - Downloading: … h
   - Reformatting: … h
   - Consolidation and manipulating: … h
   - Analyzing: … h

12 In order to accomplish these tasks, did you use the following tools?
   - SUSHI
   - COUNTER
   - SCHOLARLYSTAT
   - ERMS
   - Other (Specify): …

13 Do you sometimes combine other types of data to those supplied by vendors?
   - Yes □ No □

If so, which data?: …

14 Do you sometimes combine data from different sources in order to have a comparative outlook?
   - Yes □ No □

If so, which data did you compare?: …

What are the biggest challenges (difficulties, biases) you faced in making effective use of vendor usage statistics?: …

References


10. Killick in Bucknell et al., see note 1.


12. http://www.jusp.mimas.ac.uk/

13. http://jusp.mimas.ac.uk/

14. http://mimas.ac.uk/

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