Tracking Usage of E-Government Publications

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Available at: https://works.bepress.com/susan_kendall/58/
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Traditional Ways of Tracking Materials

- Circulation Records
- In house shelving counts
- Surveys of patrons
Tracking Use of Electronic Materials

• User could be in the library or …..
What to change in the database
* Extract data using cfhttp to initiate a one-way request from information from a remote server (the library catalog) 
http://mill1.sjlibrary.org/search/.bibNum/.bibNum/1,1,1,B/marc~bibNum
Government Publications
Architecture

Programming languages: COLDFUSION, HTML, CSS
Database: Microsoft SQL Database (MS SQL DB)

Front-end

stat_govPub.htm
- login/logoff
- view by month & year
- sort by: a-z, suDocs, highest hits
- search by bibNum, suDocs#, title

user submits

display to web browser

Back-end

Retrieves/Groups/Counts data:
- count
- bibNum
- suDoc #
- class
- title

connect to db

query data

extract data

read file

Stores hit data:
- bibNum

Data from DB:
- bibNum
- suDoc#
- class
- title

MS SQL DB Server

stat_govPub_(month).txt (text file)

Lyna Nguyen
Steps to Modifying the Bibliographic Record

Identify the Bibliographic Record Number

TITLE: Nominations of Hon. Todd Walther Dillard and Robert R. Rigsby

B19650826 – Bibliographic Record Number
Then add the bibliographic record number to the prefix

✓ The prefix is: http://univ-intranet.sjljlibrary.org/scripts/database_statistics/stat_govpub.htm?id=19650826
Identify the URL in the record

✓ 856 field will have the URL address

http://purl.access.gpo.gov/GPO/LPS24014|xSJSU
Then add tracking information

✓ 856 41 |uhttp://univ-intranet.sjlibrary.org/scripts/database_statistics/stat_govpub.htm?id=19650826&path=http://purl.access.gpo.gov/GPO/LPS24014|x SJSU
How to Change the Database (using character based version)
Overall Database changes:

✓ Search records in the database using review files
  – Initial search strategies:
    • 856 has “GPO” (Bibliographic records search)
    • Since most of these records have a “purl”, records are grouped into one review file for batch changes.
Next step:

- Use a script/macros to copy the bibliographic record number for each record.
- Add the prefix to the URL.
- Use a “do loop” in the script to perform batch changes.
- Majority of records can be batch processed with the script/macros.
Time required for initial run

- 37,000 bibliographic records / 50,000 – 856 fields
- Minimum of 2 weeks to run initial database change
- Many records had non standard URLs attached
On-going monthly maintenance

- Search for records to be changed after downloading monthly Marcive records
- Use script to do an automatic search
- Scan the records to check URLs
- Run a script/macro to batch change the records
On-going monthly maintenance and time consideration

- Total staff time: approximately 30 to 60 minutes
- Total Machine time: approximately 2 to 4 hours
### Results: Sorting by Title

February 14, 2005

**Selected Month(s): January**

(CTL+SHIFT to select more than one month)

**Month:** January  
- January
- February
- March

**Sort By:** Alphabetical Order

**Search:** (bib, title, suDocs)

**Year:** 2005  
- 2005

There are 216 records. **Total count = 302.**

<table>
<thead>
<tr>
<th>Bib. #</th>
<th>Title</th>
<th>SuDocs#</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>25442776 100 questions &amp; answers about...</td>
<td>HH 1.2:H 75/53</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>25542177 1040 instructions...</td>
<td>T 22.51:1040/INST.</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>1993439120 years of American educati...</td>
<td>ED 1.302:ED 8/12</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>24523215 1997 economic census....</td>
<td>C 3.24/4:EC 97 M-3112 H</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>24523902 1997 economic census....</td>
<td>C 3.24/4:EC 97 M-3152 H</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>24524025 1997 economic census....</td>
<td>C 3.24/4:EC 97 M-3121 B</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>24553128 1997 economic census....</td>
<td>C 3.24/4:EC 97 M-3363 B</td>
<td>1</td>
</tr>
</tbody>
</table>
Sorting by highest number of hits

There are 216 records. Total count = 302.

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<tr>
<th>Bib. #</th>
<th>Title</th>
<th>SuDocs#</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>19012287 Final report on the National...</td>
<td>TD 3.2:2002001534</td>
<td>10</td>
</tr>
<tr>
<td>2</td>
<td>25203526 Prolonged wars...</td>
<td>D 301.266:P 94/2</td>
<td>7</td>
</tr>
<tr>
<td>3</td>
<td>19085333 Public libraries in the Unite...</td>
<td>ED 1.135:</td>
<td>5</td>
</tr>
<tr>
<td>4</td>
<td>25444840 Law enforcement...</td>
<td>GA 1.13:GAO-04-198</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>25347937 Individuals with Disabilities...</td>
<td>Y 1.1/5:108-185</td>
<td>4</td>
</tr>
<tr>
<td>7</td>
<td>19064548 Insurance regulation...</td>
<td>GA 1.5/2:T-OGD-00-209</td>
<td>4</td>
</tr>
</tbody>
</table>
Sorting by SuDocs Order

February 14, 2005

Selected Month(s): January
(CTL+SHIFT to select more than one month)

Month: January
February
March

Sort By: SuDocs Order

Search: (bib, title, SuDocs)

There are 216 records. Total count = 302.

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<th>Title</th>
<th>SuDocs#</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>17540513 Budget of the United States G...</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>1828209X Managing the FDLP electronic...</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>25336149 Forest health highlights in C...</td>
<td>A 13.154:C 12/</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>25549273 California fire siege 2003...</td>
<td>A 13.2:C 12/</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>19012846 Sustainable production of for...</td>
<td>A 13.88:PNW-GTR-520</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>25198105 Proceedings, Hidden Forest Va...</td>
<td>A 13.88:PNW-GTR-579</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>24491858 Specifications and drawings f...</td>
<td>A 68.3:1728 F-806</td>
<td>1</td>
</tr>
</tbody>
</table>
Use Statistics

Monthly Accesses of E-govpubs from the Library Catalog
Statistics will be used for:

• Collection development
  – Selection of print versions
  – Increase / decrease in areas identified

• Training
  – Internal – focus professional development on most used areas
  – External – offer workshops for the community based on requested materials
<table>
<thead>
<tr>
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<th>Title</th>
<th>Reference</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>2587859</td>
<td>Administration on Aging ...</td>
<td>HE 1.1001:</td>
<td>1</td>
</tr>
<tr>
<td>1968817</td>
<td>Osteoporosis and physical act...</td>
<td>HE 20.114:2/3</td>
<td>1</td>
</tr>
<tr>
<td>2588405</td>
<td>Bone health and osteoporosis...</td>
<td>HE 20.2:B 64</td>
<td>9</td>
</tr>
<tr>
<td>1901409</td>
<td>NIH human embryonic stem cell...</td>
<td>HE 20.3002:20020036</td>
<td>2</td>
</tr>
<tr>
<td>1956749</td>
<td>Autism facts...</td>
<td>HE 20.3002:20020069</td>
<td>3</td>
</tr>
</tbody>
</table>
These statistics have:

– Shown that the online catalog is a resource for finding electronic documents as well as print materials

– Shown the ongoing need for multiple access points to finding complex documents
We are grateful for the assistance of:

Shirley Hwang
and
Lyna Nguyen

San Jose State University Library
Thank you!

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