

Faculty Scholarship and Creative Works

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#### Making Sense of E-Resources Usage Statistics

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## Making Sense of E-Resources Usage Statistics

Talking Tech Webinar. 29 August 2017



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#### Outline

- Introduction to Statistics and Issues
- FALSC Statistics Services
- COUNTER Reports and How to Get Them
- Specialized Databases and Usage Data
- Usage Data and Collection Decisions
  - UCF Health Sciences Library
  - Tallahassee Community College Library
- Limitations and Issues with Usage Data
- Discussion and Q&A





#### Making Sense of Usage Statistics

- How do we know if what we license is being used?
- How do we know if it is useful?
- Usage happens on vendor platforms
- We're relying on a hugely diverse group of content providers to give us data





## Beginnings

- The Search statistic was the standard for a very long time.
- Does a lot of searching on a platform mean that the product is useful, or not very useful?





#### Complications



- Variety of vendor content means a variety of data types
- Broadcast searching
- Discovery tools





## LRS: LINCC Report Service



LINCC Reports Service - LRS

#### LINCCWeb Reports

L002 External Database Connections

L010 Vendor Statistics - College Searches (Quarterly)

L011 Vendor Statistics - Statewide Searches (Quarterly)

L012 E-Books Usage - College Title Requests (Quarterly)

L013 E-Books Usage - Statewide Title Requests (Quarterly)

- Searches
- Title Requests



## Reports added Spring 2014



#### LINCC Reports Service - LRS

LO29 Vendor Statistics - College Full-Text Accessions (Quarterly)

LO30 Vendor Statistics - Statewide Full-Text Accessions (Quarterly)

LO31 Vendor Statistics - College Sessions (Quarterly)

L032 Vendor Statistics - Statewide Sessions (Quarterly)

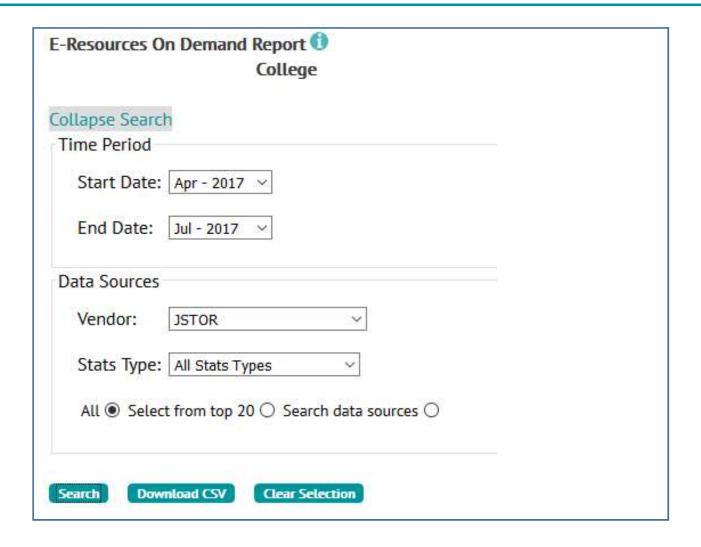
L033 Vendor Statistics - College Multimedia Accessions (Quarterly)

LO34 Vendor Statistics - Statewide Multimedia Accessions (Quarterly)

- Full Text Accessions
- Sessions
- Multimedia Accessions



## E-Resources On-Demand Report





#### SUL: Looking for Answers in Statistics

#### **Quantitative**

- Which resources are used?
- How much are they used?
- What is the cost per use?

#### **Comparative**

- Is it used more than other resources?
- Is use higher than before?
- Is the cost per use less than other resources?
- Is use higher here than elsewhere?

#### **Evaluative**

- Is our level of use a good ROI?
- Should we renew this resource?





#### **COUNTER:** Code of Practice Releases

# COUNTER CONSISTENT CREDIBLE COMPARABLE

Code of Practice for *Vendor-generated* usage statistics

- 2003 Release 1
- 2005 Release 2
- 2008 Release 3
- 2012 Release 4
- 2019 Release 5





## List of COUNTER Reports: Journals, Databases

Journal Report 1 JR1	Number of Successful Full-Text Article Requests by Month and Journal	Standard
Journal Report 1 GOA	Number of Successful Gold Open Access Full-Text Article Requests by Month and Journal	Standard
Journal Report 1a	Number of Successful Full-Text Article Requests from an Archive by Month and Journal	Optional
Journal Report 2	Access Denied to Full-Text Articles by Month, Journal and Category	Standard
Journal Report 3	Number of Successful Item Requests by Month, Journal and Page-type	Optional
Journal Report 3 Mobile	Number of Successful Item Requests by Month, Journal and Page-type for usage on a mobile device	Optional
Journal Report 4	Total Searches Run By Month and Collection	Optional
Journal Report 5	Number of Successful Full-Text Article Requests by Year-of-Publication (YOP) and Journal	Standard
Database Report 1 DB1	Total Searches, Result Clicks and Record Views by Month and Database	Standard
Database Report 2	Access Denied by Month, Database and Category	Standard
Platform Report 1 PR1	Total Searches, Result Clicks and Record Views by Month and Platform	Standard



## List of COUNTER Reports: Books and Multimedia

Book Report 1 BR1	Number of Successful Title Requests by Month and Title	Standard
Book Report 2 BR2	Number of Successful Section Requests by Month and Title	Standard
Book Report 3	Access Denied to Content Items by Month, Title and Category	Standard
Book Report 4	Access Denied to Content items by Month, Platform and Category	Standard
Book Report 5	Total Searches by Month and Title	Standard
Book Report 7	Number of Successful Unique Title Requests by Month and Title in a Session	Optional
Multimedia Report 1 MR1	Number of Successful Full Multimedia Content Unit Requests by Month and Collection	Standard
Multimedia Report 2	Number of Successful Full Multimedia Content Unit Requests by Month, Collection and Item Type	Optional



## List of COUNTER Reports: Year, Type, Misc.

Title Report 1	Number of Successful Requests for Journal Full-Text Articles and Book Sections by Month and Title	Optional
Title Report 1 Mobile	Number of Successful Requests for Journal Full-Text Articles and Book Sections by Month and Title (formatted for normal browsers/delivered to mobile devices AND formatted for mobile devices/delivered to mobile devices	Optional
Title Report 2	Access Denied to Full-Text Items by Month, Title and Category	Optional
Title Report 3	Number of Successful Item Requests by Month, Title and Page Type	Optional
Title Report 3 Mobile	Number of Successful Item Requests by Month, Title and Page Type (formatted for normal browsers/delivered to mobile devices AND formatted for mobile devices/delivered to mobile devices	Optional

Plus some Consortia Reports



## What's Counted in Which COUNTER Report?

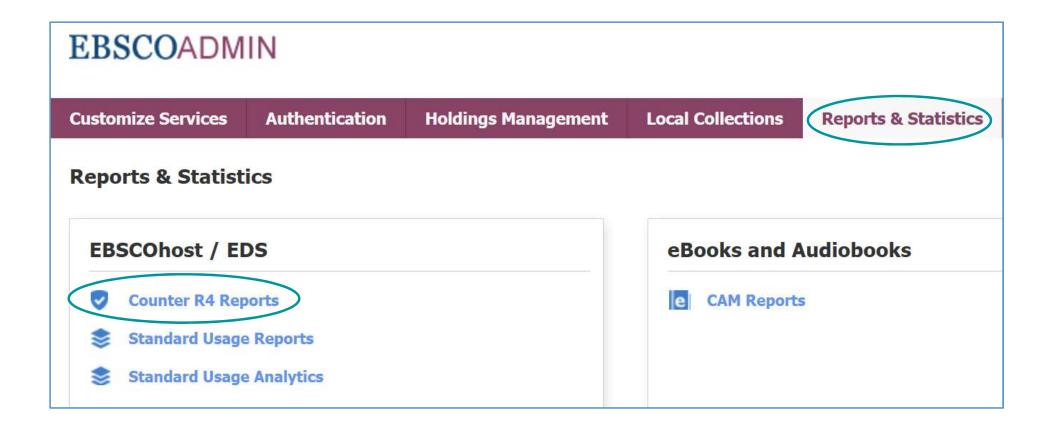
Report Code	Counts	Level
• DB1	Searches, Result Clicks, Record Views	Database
• PR1	Searches, Result Clicks, Record Views	Platform
• JR1, JR1a, JRGOA	Full Article	Platform
• BR1	Full Book	Platform
• BR2	Section of Book, i.e. Chapter	Platform
• MR1	Full Media File	Platform



https://commons.wikimedia.org/wiki/File:Abacus\_5.jpg

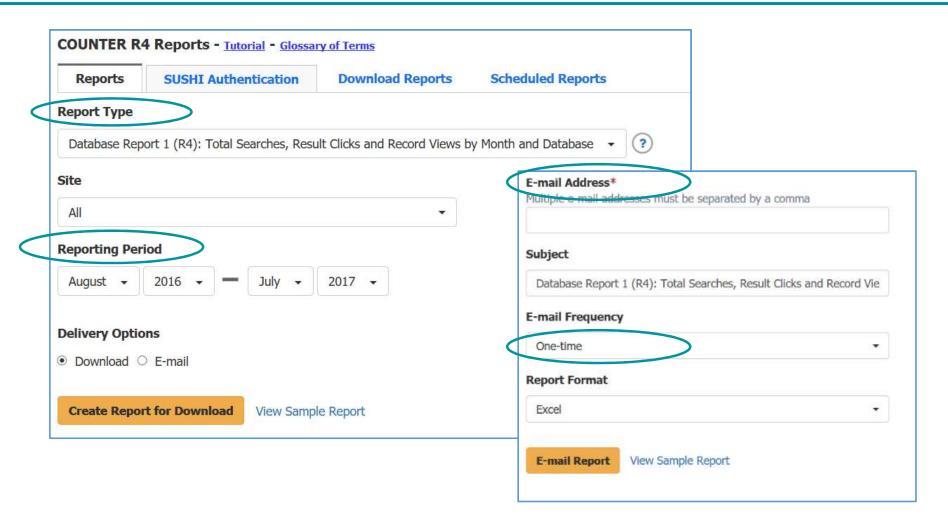


#### **EBSCOadmin: Getting COUNTER Reports**



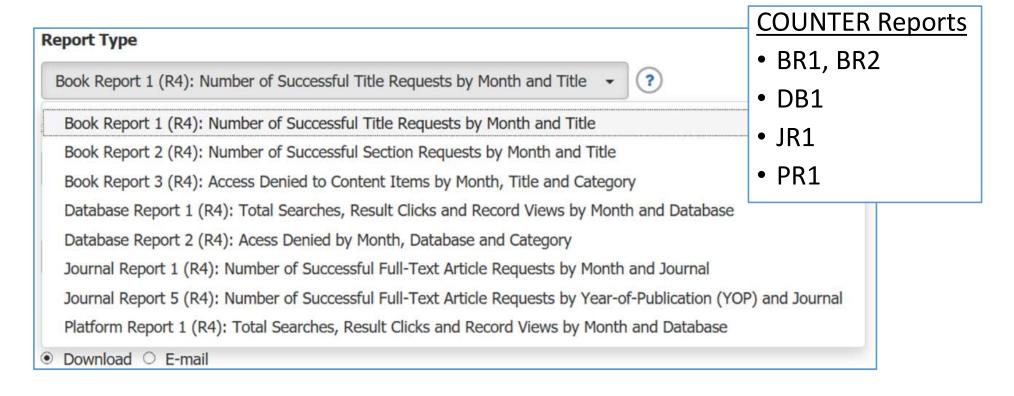


## EBSCOadmin: COUNTER Reports Form



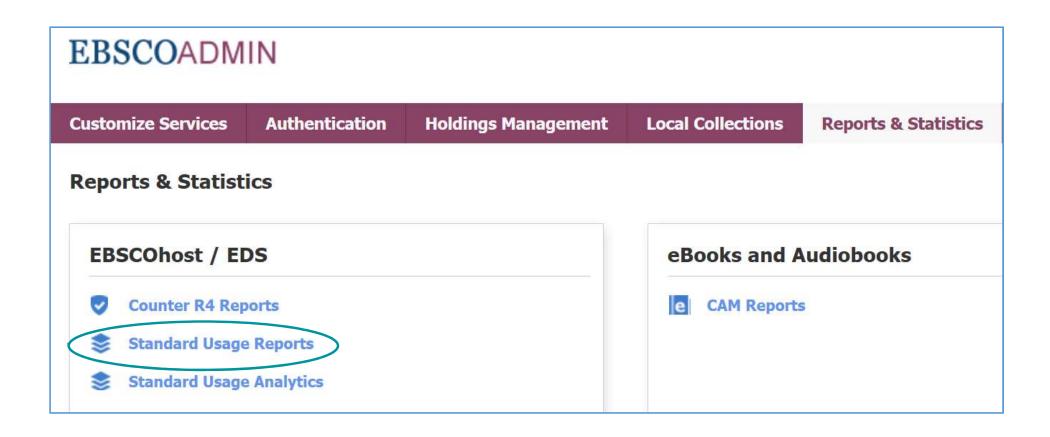


## **EBSCO COUNTER Reports Offered**



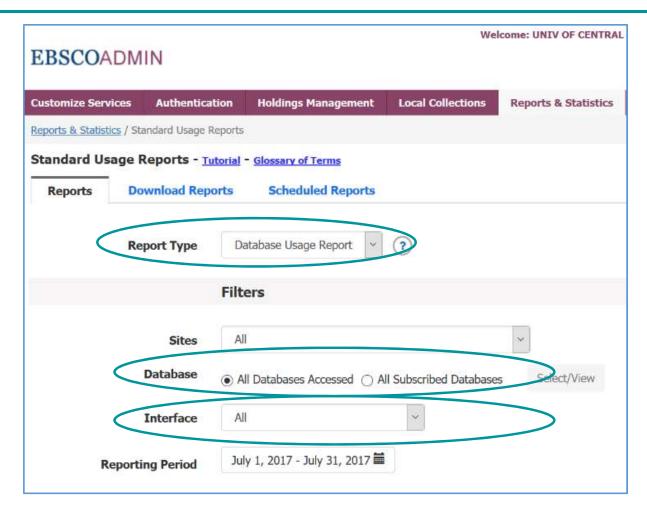


## EBSCO's "Standard" Non-COUNTER Reports



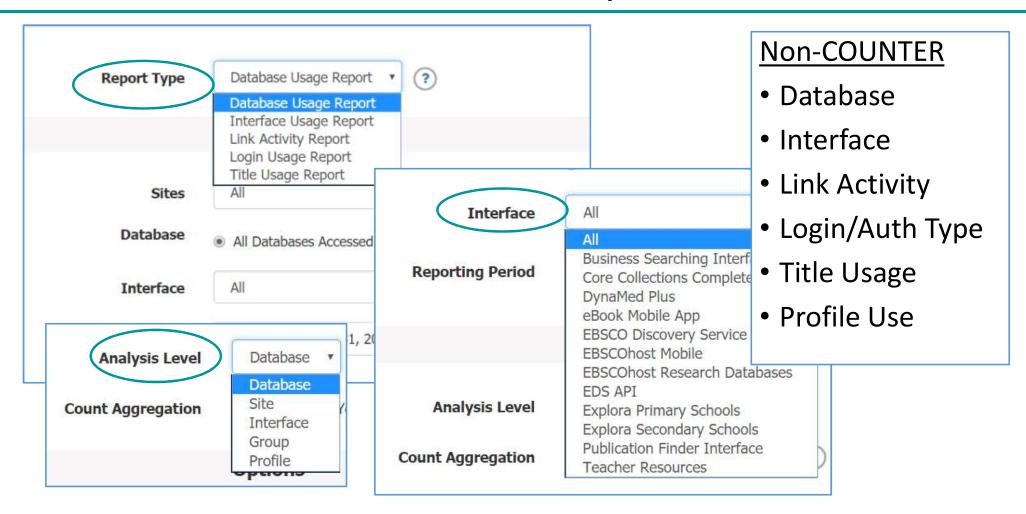


#### EBSCO's "Standard" (Non-COUNTER) Reports



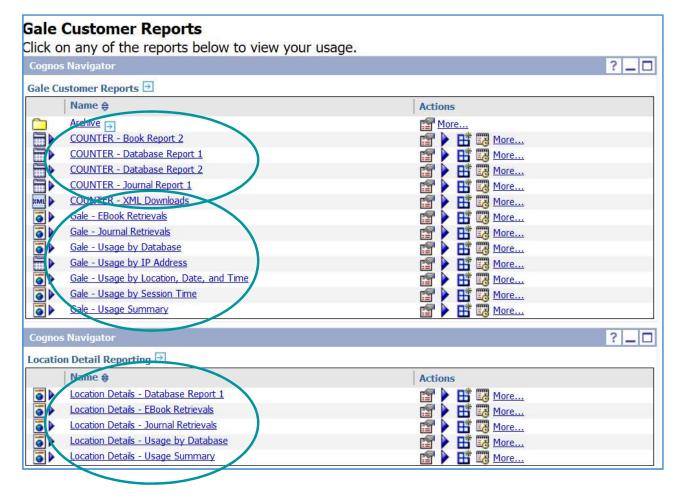


## EBSCO's Non-COUNTER Report Form





## Gale COUNTER and Non-COUNTER Reports



#### **COUNTER Reports**

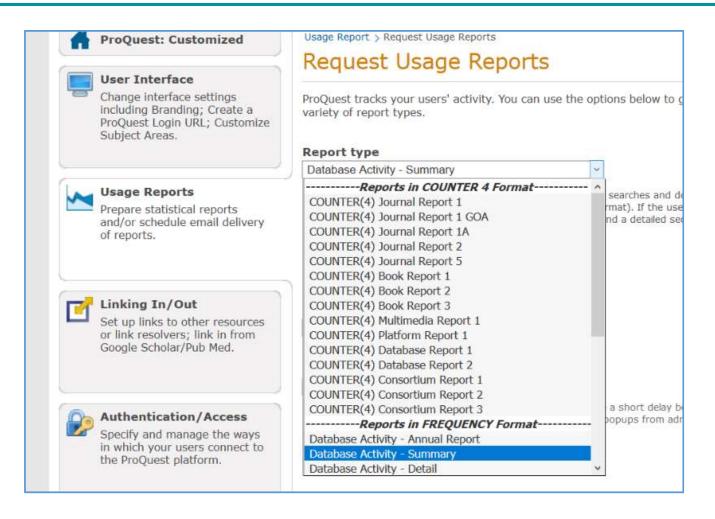
- BR2
- DB1
- JR1

#### **Non-COUNTER**

- eBooks
- Journals
- Database
- IP
- Location (Site)
- Session Length



#### ProQuest COUNTER and Non-COUNTER Reports



#### **COUNTER Reports**

- JR1, JR1a, JRGOA
- BR1, BR2, BR3
- MR1
- PR1
- DB1, DB2, DB3

#### Non-COUNTER

Database



#### Other ProQuest Platforms



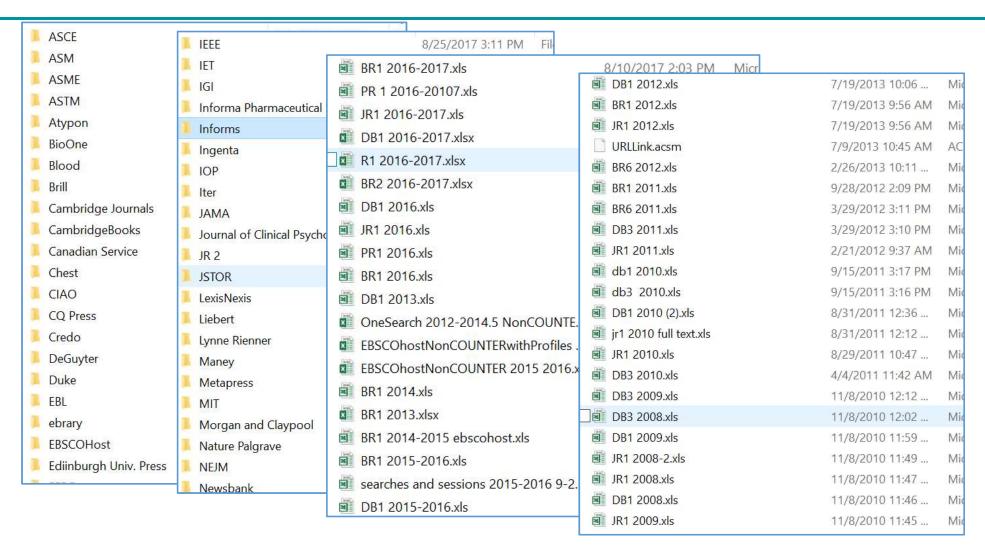
- Vendors might have several Platforms
- Statistic reports are based on platform, not vendor.

#### Platform:

An interface from an Aggregator,
Host, Publisher or Service that
delivers the content to the user and
that counts and provides the
COUNTER usage reports.



#### Folders and Folders Full of Files and Files





#### PR1: Regular v Federated, Clicks, and Views

Platform	Publisher	User Activity		Reporting Period Total	Jul-2016	Aug-2016	Sep-2016
EBSCOhost	EBSCO	Regular Searches		2,513,460	203,561	98,460	301,589
		Searches-federated	d and				
<b>EBSCOhost</b>	EBSCO	automated		52,776	38	140	74
EBSCOhost	EBSCO	Result Clicks		3,217,183	237,910	106,513	341,955
EBSCOhost	EBSCO	Record Views	A /	1,943,217	137,742	59,718	203,262
_	_		/Vc	Full Taxx			

#### **Regular Searches:**

Searches where the user is in control over which Databases are be searched. For a search conducted across multiple Databases each Database searched counts that Search.

#### **Federated and Automated Searches:**

Multiple Databases are searched simultaneously with a single query from the user interface. For Federated the end user selects database. For Automated, the end user is not responsible for selecting which databases are searched.



DB1: Regular v Federated, Clicks, and Views

			b Au	601		Jul-	Aug-	Sep-
Database	Publisher		high Agivit	y	Total	2016	2016	2016
Abstracts in Social		Very	Searches-federa	ated	*			
Gerontology	EBSCO	EBSCOhost	and automated		1,976,855	161,340	80,177	217,719
Abstracts in Social Gerontology	EBSCO	EBSCOhost	Result Clicks		1,026	100	36	36
Abstracts in Social Gerontology	EBSCO	EBSCOhost	Regular Searche	S	19,430	1,506	799	1,760
Abstracts in Social Gerontology	EBSCO	EBSCOhos	Record Views		707	57	24	24
			Searches-tedera	<b>\</b>	4			
Academic Search Premier	EBSCO	EBSCOhost	and automated	+	1,985,734	161,992	80,296	218,977
Academic Search Premier	EBSCO	EBSCOhost	Result Clicks		267,886	19,256	7,884	19,123
Academic Search Premier	EBSCO	EBSCOhost	Regular Searche	s	84,540	8,538	3,785	8,552
Academic Search Premier	EBSCO	EBSCOhost	Record Views		176,313	11,051	4,363	10,397
			Searches-federa	ated	<b>V</b>			
CINAHL Plus with Full Text	EBSCO	EBSCOhost	and automated		1,980,299	161,662	80,258	218,095
CINAHL Plus with Full Text	EBSCO	EBSCOhost	Result Clicks		337,643	31,512	11,012	40,418
CINAHL Plus with Full Text	EBSCO	EBSCOhost	Regular Searche	:S	175,738	14,213	5,297	22,977
CINAHL Plus with Full Text	EBSCO	EBSCOhos	Record Views		190,030	17,124	5,700	21,880



## JR1: Full Text Article Use

Journal	Publisher	Platform	DOI	Propri etary ID	Print ISSN	Online ISSN	Total	HTML	PDF	Jul- 2016	Aug- 2016	Sep- 2016
Total for all												
Journals		<b>EBSCOhost</b>					558,457	127,566	430,847	47,066	20,088	60,419
AACE journal	AACE	EBSCOhost		145634		1551-3696	2	0	2	0	0	0
AACN Bold Voices	AACN	EBSCOhost		568370	1948-7088	1948-7096	118	0	118	14	2	21
AACN news	AACN	EBSCOhost		103998	1075-7732		12	0	12	0	0	7
AALL Spectrum	AALL	EBSCOhost		199331	1089-8689		12	0	12	6	0	0
AANA Journal	AANA	EBSCOhost		305	0094-6354		290	0	290	18	5	28



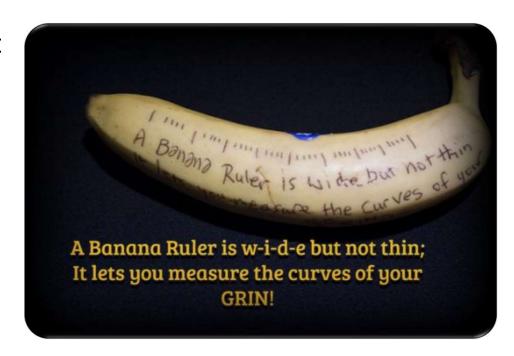
## BR1 and BR2: Books and Sections

c ation				Proprie				Jul-	Aug-	Sep-
Whole v Section	Publisher	Platform	DOI			ISSN	Total			
Total for all Titles							19338			1982
Bike Boys, Drag Queens & Superstars: Avant-garde, Mass Culture, and Gay Identities in the 1960s Underground	Indiana				978-0-585-					
Cinema		EBSCOhost		960787	02074-7		516	0	64	182
Human Behavior in the Social Environment (New directions in social work)	Routledge	EBSCOhost		770092	978-1-282- 57657-5		159	0	6	100
Clinical studies in medical biochemistry	Oxford	EBSCOhost		804460	978-1-4294- 0288-0		92	3	6	80
Julia Augusti: The Emperor's Daughter (Women of the ancient world)	Taylor & Francis	EBSCOhost		350299	978-1-280- 55232-8		44	0	0	44
Evaluating Research For Evidence-Based Nursing Practice	FA Davis Company	EBSCOhost		529482	978-1-78034- 767-7		203	0	0	35



#### UCF Health Sciences Library: Specialized Data

- Specialized databases often do not offer COUNTER reports.
- Often have to contact vendor for usage data.
- Sometimes data is missing.





## Non-COUNTER Reports: Lexicomp Example

1	A	В	C	D	E	F	G	H		J	K	L	M
1	University of Central Florida	_											
5	A CONTRACT OF THE CONTRACT OF	2016-08	2016-09	2016-10	2016-11	2016-12	2017-01	2017-02	2017-03	2017-04	2017-05	2017-06	2017-07
3	Document Retrieval (Document ID)	4	1	. 9	14	10		2	7	5		19.00	
4	Drug ID Access			1							11		
5	Drug ID Search										4		
б	Generic Name Index							2					
7	Home / Splash Page - Newly Approved Documents	2	8	11	7	6	6	18	4	6	27	7	
8	Home / Splash Page - Special Alerts	2	8	11	7	6	6	18	4	6	27	7	
9	Index Access			4	4			3				1	
10	Interact Access			1	3					2	15	3	
11	Interact Analysis									6	13		
12	Interact Lookup				6					2			
	Login	2	8	16	12	7	12	8	6	6	5	31	
14	Newly Approved Documents Search		2	3									
15	Patient Education Access				1				1		1		
16	Patient Education Search				2				1				
17	Search	7	1	. 12	23	15	3	2	4	5	21	58	
18	Special Alerts Search		2	3									
19	TOTALS	17	30	71	79	44	27	53	27	38	137	154	

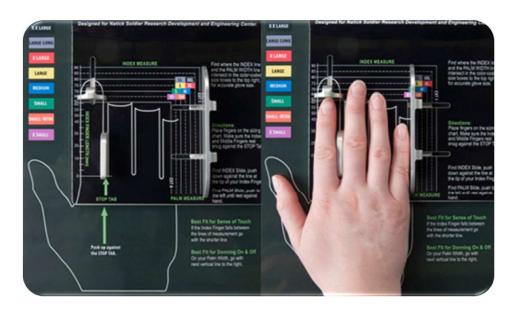


## Lexicomp Tracked Usage Types

Document Retrieval (Docum	ent ID)					
Drug ID Access						
Drug ID Search	Interact Acc	ess				
Generic Name Index	Interact Ana	alysis				
Home / Splash Page - Newly	Interact Loc	kup				
Home / Splash Page - Specia	Login					
Index Access	Newly Approved Documents Search					
	Patient Edu	cation Access				
	Patient Edu	cation Search				
	Search					
	Special Aler	ts Search				



#### Non-COUNTER Reports – Cont.



- What do these terms mean? How do I find out?
- Other things to consider:
  - Lexicomp is integrated into another product called UpToDate.
  - Is usage on UpToDate content reflected in Lexicomp usage data?



#### Health Sciences Library Collection Decisions

- The Electronic Resources
   Librarians, the Director, and the
   Library Coordinator meet weekly
   to discuss the budget.
- Review resource usage for renew and during budget planning.
- We look at:
  - cost per use back 3-5 years,
  - cost per year,
  - and usage

...together and independently to spot patterns.





#### **UCF Health Sciences Library Collection Decisions**



- Other factors to consider:
  - Who requested this resource?
  - Is the resource heavily used by the curriculum or to plan the curriculum?
  - Is the product connected to another resource?
  - Is this a cost-shared resource?

Be candid with faculty about cost and usage.



#### Tallahassee Community College eResources

- We review all of our databases annually.
- We subscribe to the majority of our databases through the FALSC Group Licensing Process.
- Most licenses are on the calendar year.



## TCC Librarian Participation

- Librarians participate fully in the review and recommendation process
- TCC Librarians are assigned divisions and liaison with their division year round.
- The liaison roll includes working closely with faculty on Instruction (F2F, Online; synchronous and asynchronous), Collection Development, and any special initiatives of that division.





## Timeline: E-Resources Review and Renewal

## April:

- Librarians are asked to "check in" with their discipline liaison areas
  - Do we have new programs?
  - Are old programs going away?
  - Do we want to trial a database before faculty leave for the summer?

#### August:

- Librarians are asked to review the following:
  - List of databases purchased with TCC funds
  - Last year's database costs
  - Database statistics from LINCCWeb Reports Service (LRS), especially for the databases specific to their liaison area.











Database Search

Multi Dbase Search

A-Z Journals

Citation Linker

**LINCCWeb Tools** 

My Account

**GO** to Catalog

Search Florida Libraries

AskALibrarian.

Alphabetical

Subject

Find Database

Trials

Funding Sources | Persistent Links

#### **Funding Source Types**

Statewide Allocation - Funded by the Florida legislature through a statewide allocation for electronic resources.

State Library of Florida - Funded by the State Library of Florida as part of the Florida Electronic Library.

College and Statewide - The collection contains items funded by your college and by a statewide allocation from the Florida legislature.

college - Funded by your college.

College (FLVC Group License) - Funded by your college, through an FLVC license.

Benefactor Funded by a local benefactor.

Other - Includes anything else such as free resources or library catalogs.

Perpetual License

#### College

Alexander Street Video

Anatomy TV (Primal Pictures)

Books@Ovid

College of 2020 - Students (Chronicle of Higher Education)

Digital Collection (ABC-CLIO)

Distance Education Report (Magna Publications)

Ebook Central (ProQuest)

Kanopy

MyiLibrary (Coutts)

Online Classroom (Magna Publications)

Sage eBooks (Sage Publications)

Salem eBooks

ScienceDirect (Elsevier)

Springer eBook Collection (Springer)

Swank Digital Campus (Swank Motion Pictures)

Swank Disney

Tallahassee Democrat (ProQuest)

Teaching Professor (Magna Publications)

#### College (FLVC Group License)

African American Experience (ABC-CLIO)

American Government (ABC-CLIO)

American History (ABC-CLIO)

America's Historical Newspapers (NewsBank)

Chronicle of Higher Education

Credo Reference

Daily Life Through History (ABC CLIO)

Dentistry and Oral Science Source (EBSCO)

Ferguson's Career Guidance Center (Infobase Publishing)

GREENR (Gale)

Nursing Education in Video (Alexander Street Press)

Ovid Nursing Database

Oxford Music Online (Oxford University Press)

Pop Culture Universe (ABC-CLIO)

Science (AAAS.org)

SIRS Government Reporter (SIRS)

SIRS Issues Researcher (SIRS)

World History: The Modern Era (ABC-CLIO)

World History: Ancient and Medieval Eras (ABC-CLIO)



LINCCWeb Reports	
L001 LINCCWeb/Catalog Searches REPLACED by L016	2008-06-30 • Disp
L002 External Database Connections	2017-06-30 • Disp
L006 FirstSearch Statistics RETIRED	2006-06-30 ▼ Disp
L009 SFX/Metalib Statistics	2017-06-30 ▼ Disp
L010 Vendor Statistics - College Searches (Quarterly)	2017-06-30 ▼ Disp
L011 Vendor Statistics - Statewide Searches (Quarterly)	2017-06-30 • Disp
L012 E-Books Usage - College Title Requests (Quarterly)	2017-06-30 • Disp
L013 E-Books Usage - Statewide Title Requests (Quarterly)	2017-06-30 • Disp
L014 Metalib Usage Comparisons	2017-06-30 • Disp
L015 SFX Usage Comparison	2017-06-30 <b>Disp</b>
L016 LINCCWeb PAC Searches	2017-06-30 ▼ Disp
L017 LINCCWeb Click Through Statistics	2017-06-30 • Disp
L018 LINCCWeb Refine (Facet) Statistics	2017-06-30 ▼ Disp
L019 LINCCWeb Primo Search Statistics	2017-06-30 • Disp
LO23 LINCCWeb Full Display Statistics Discontinued 8/1/11	2011-06-30 • Disp
L024 LINCCWeb Get it Statistics Discontinued 8/1/11	2011-06-30 <b>Disp</b>
L027 SMS Texting Summary	2017-06-30 ▼ Disp
L029 Vendor Statistics - College Full-Text Accessions (Quarterly)	2017-06-30 • Disp
L030 Vendor Statistics - Statewide Full-Text Accessions (Quarterly)	2017-06-30 • Disp
L031 Vendor Statistics - College Sessions (Quarterly)	2017-06-30 • Disp
L032 Vendor Statistics - Statewide Sessions (Ouarterly)	2017-06-30 ▼ Disp
L033 Vendor Statistics - College Multimedia Accessions (Quarterly)	2017-06-30 ▼ Disp
L034 Vendor Statistics - Statewide Multimedia Accessions (Quarterly)	2017-06-30 × Disp



## **Timeline Continued**



### **August (cont.)**

- Discuss budget, usage findings, and any additional known issues or ideas.
- I provide additional reports or data if necessary

### **September**

- Group License process is launched
- Librarians discuss the survey and select which databases we want pricing, based on our previous discussions

#### October

Finalize our renewals, additions, and/or cancellations.



## Using Usage Data to Make Decision

#### Alexander Street Press

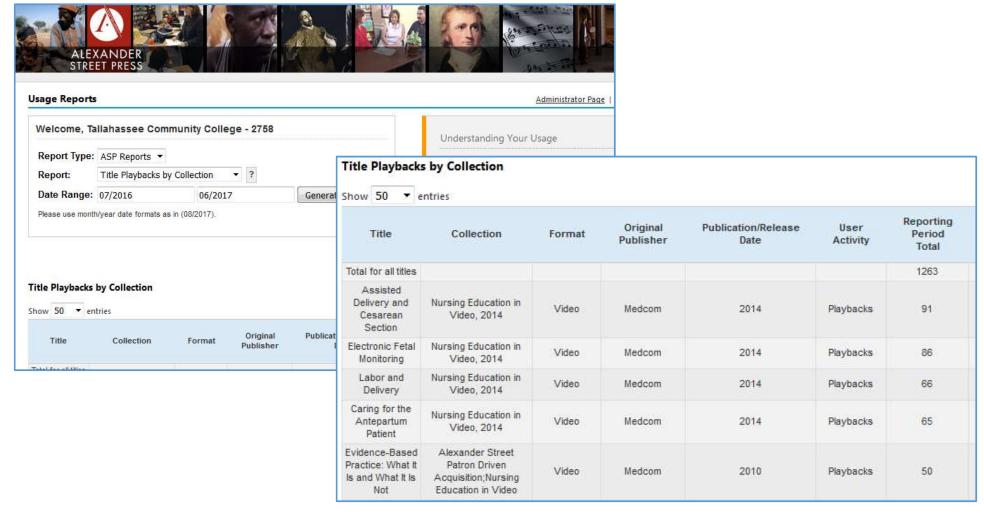
- Previously subscribed to three databases. After review of title level usage determined that we would spend less utilizing the PDA.
  - Cancelled two databases,
  - Kept one (Nursing),
  - Signed on to PDA

#### Oxford

- Cost per use (\$9.38 per search)
- Additional factors: only one known assignment







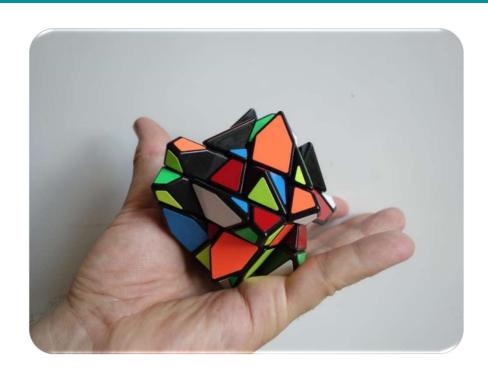


## Complications and Issues

- Complicated and Confusing
  - Tempting to over-sum
- Cost per use issues
  - Databases and journals
- Comparison issues
  - Standard change, technology changes, settings changes
  - Program needs, FTE of grad v undergrad vary
- What do the stats mean?
  - Need more Outreach/instruction, changing programs and assignments, technology not working, need web redesign



# Stats Issues: Complicated and Confusing

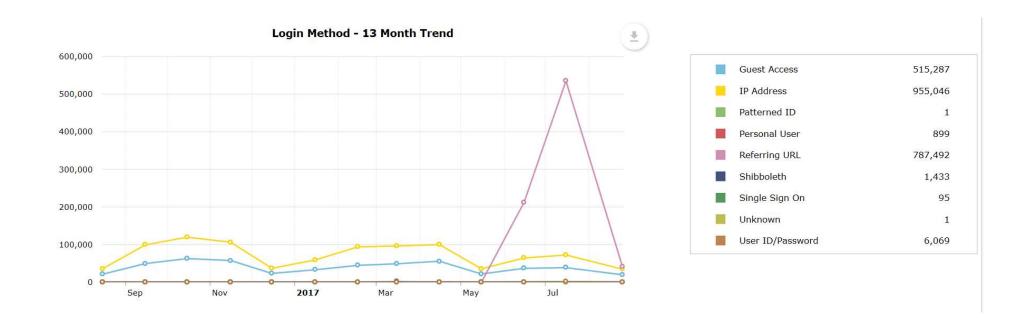


- Tempting to over-sum
  - BR1 and BR2 v JR1
  - DB1 for platforms that allow search across multiple databases
- Easy to under-sum
  - Journals' FT on multiple platforms
  - Small vendors easy to forget
- Comparison issues
  - COUNTER standards change,
  - Technology and config changes
  - College programs, FTEs vary
  - Non-COUNTER reports not \*standard\*



## Technology and Configuration Changes

Sudden Changes... what happened here?!?





## Why Cost per Use and Why is Hard to Calculate

- PR1 and DB1: no full text report
- JR1, BR1 and BR2, MR1: Platform-wide only, not per database
- Use data hard to align with invoice/cost data
- ISSN, DOI, Proprietary IDs often not identical on invoice and COUNTER report
- Resource title may have many variations on a single report



# **ABI Inform**

Database	User Activity	Total
ABI/INFORM Collection->ABI/INFORM Dateline	Record Views	416
ABI/INFORM Collection->ABI/INFORM Dateline	Regular Searches	31,564
ABI/INFORM Collection->ABI/INFORM Dateline	Result Clicks	1,947
ABI/INFORM Collection->ABI/INFORM Dateline	Searches-federated and automated	76
ABI/INFORM Collection->ABI/INFORM Global	Record Views	5,573
ABI/INFORM Collection->ABI/INFORM Global	Regular Searches	32,266
ABI/INFORM Collection->ABI/INFORM Global	Result Clicks	15,205
ABI/INFORM Collection->ABI/INFORM Global	Searches-federated and automated	76
ABI/INFORM Collection->ABI/INFORM Trade & Industry	Record Views	549
ABI/INFORM Collection->ABI/INFORM Trade & Industry	Regular Searches	31,671
ABI/INFORM Collection->ABI/INFORM Trade & Industry	Result Clicks	2,964
ABI/INFORM Collection->ABI/INFORM Trade & Industry	Searches-federated and automated	76



# Nifty Non-Standard Data

Database	Database Sessions	Searches	Full - Text	Smart- Link	Custom- Link	Abstract Views
PsycINFO	79,633	193,449	420	51,963	53,073	188,985
CINAHL Plus w FT	53,690	174,148	38,890	3,471	39,497	108,959
MEDLINE	287,635	89,114	6	6,098	19,862	309,175
ERIC	32,869	119,533	120	20,577	11,948	62,873
Academic Search Premier	79,639	83,382	53,623	2,849	11,488	129,542



## Complicated, Important, and Elusive Conclusions

- What do the stats mean?
  - Need more Outreach/instruction?
  - Need better web design?

- Is our level of use a good ROI?
- Should we renew this resource?
- Do we need it no matter what the usage?





## What about you?

- How do you use statistics?
- What decisions do you support with stats?
- What issues do you face?
- How much time does it take to gather process the stats into useful form?
- What solutions have you used?
- What would improve your work with stats?



## Thank You!



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