Where the Wild Things Are Circulation Data Revealed 2016 Wisconsin Association of Public Libraries (WAPL) Annual Conference

Wisconsin Division for Libraries and Technology



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## **Topics for Today**

How this happened

Available data

Summaries by locale, resident population, and collection size

Putting it all together

The big question(s)



## How This Happened

Talking about data matters.

State Data Coordinators (SDC) discuss data. A lot.

Data we have been collecting all along can provide new information.

What we thought we might find.



#### **Talking About Data Matters**

Data doesn't happen in isolation, so the work we do with it also should not.

Data requires interpretation, so discussion matters.

Data is inherently about change, so we should consider changing how we think about data.



#### **SDCs Discuss Data**

# What do State Data Coordinators discuss?

Data that isn't collected but should be

Data that is collected but shouldn't be

Data that represents different things now than it did originally

Data that contains more information than we use



## **Circulation Defined**

#### 2017

#### Wisconsin Public Library Annual Report for 2016

A circulation transaction is the act of loaning materials at a library or bookmobile in all formats for use outside the library. This activity includes checking out materials to users, either manually or through a self-checkout system, and renewing materials, each of which is reported as a circulation transaction.



## **Circulation Defined**

#### 1988

## Action Plan for the Federal-State Cooperative System for Public Library Data

Total Circulation Transactions. Transactions that involve lending an item from the library's collection for use generally (although not always) outside the library. This activity includes charging, either manually or electronically, and also renewals, each of which is reported as a circulation transaction.



## What We Might Find

Library users can renew online. Are staff renewals decreasing?

Libraries offer more types of services. Do checkouts represent less of the services used?

Libraries serve very different areas of Wisconsin Does the type of area determine trends in use?

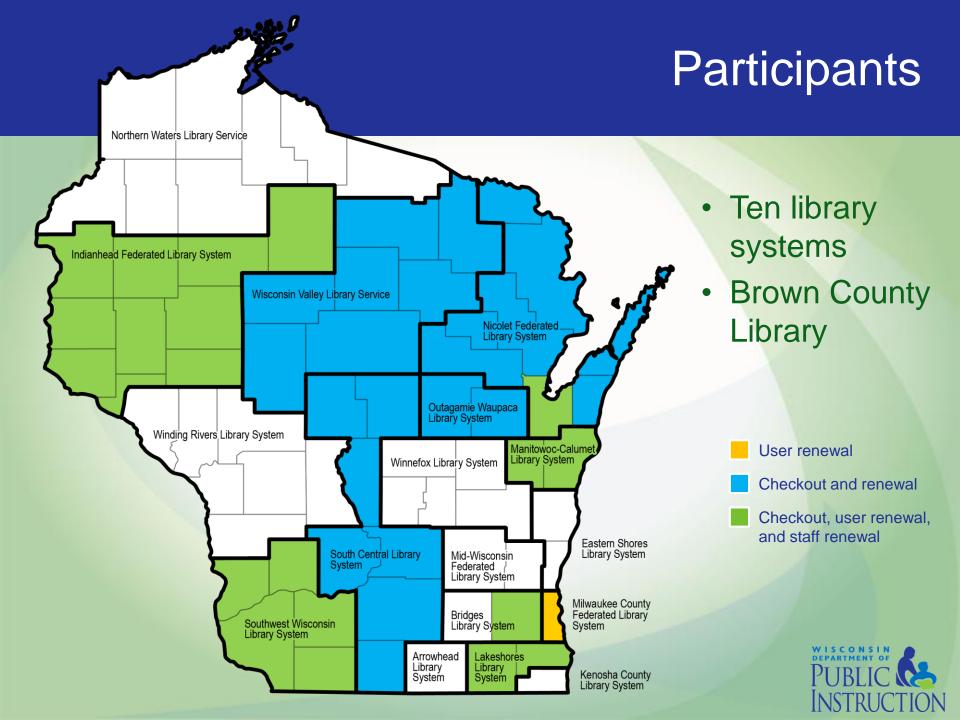


#### Available Data

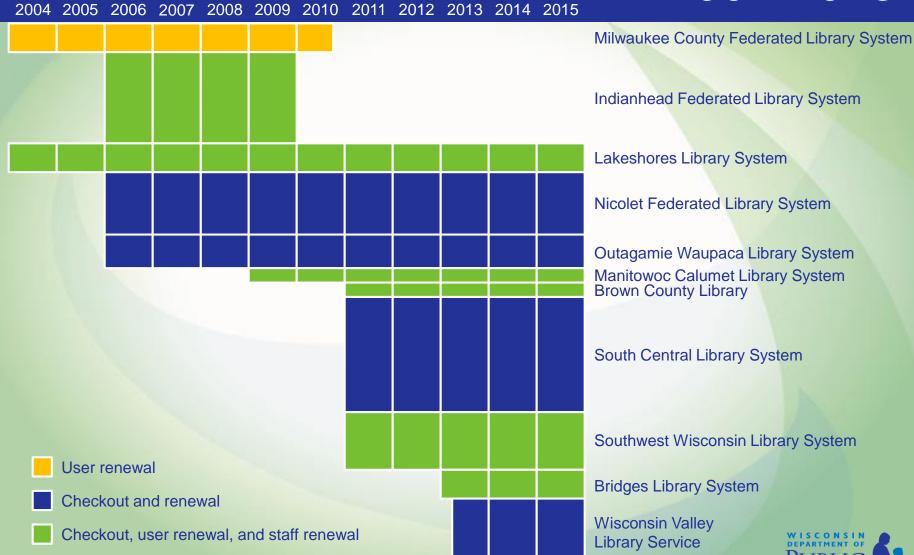
#### Participants ILS Circulation Data

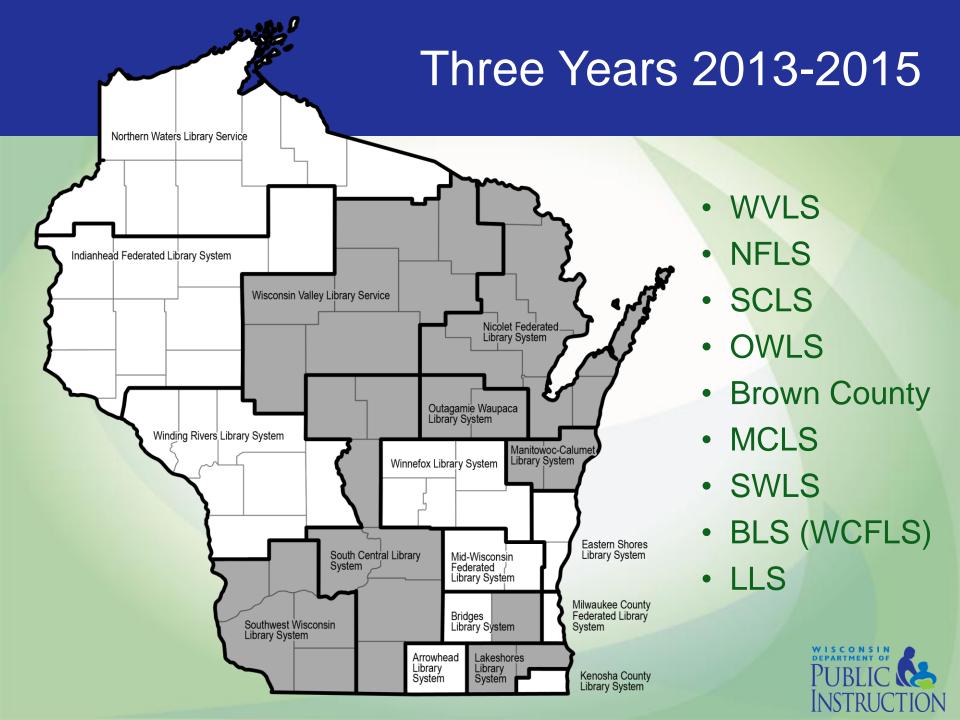
Timelines





## ILS Circulation Data 2004-2015





## Five Years 2011-2015

•

NFLS

SCLS

**OWLS** 

MCLS

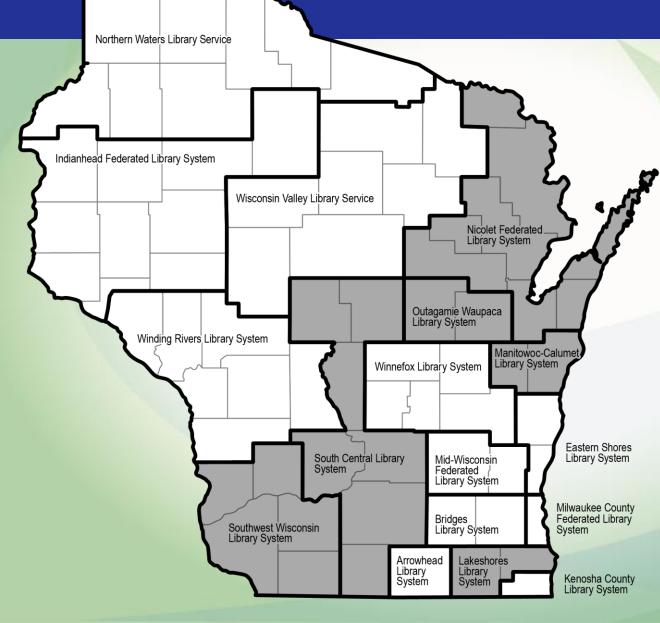
SWLS

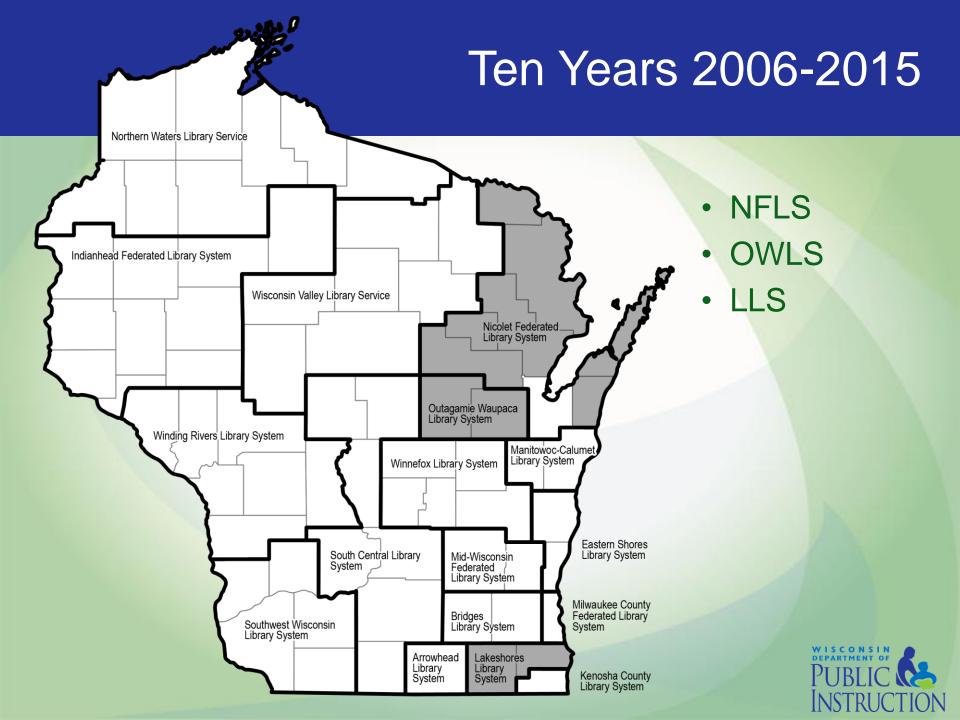
• LLS

Brown County

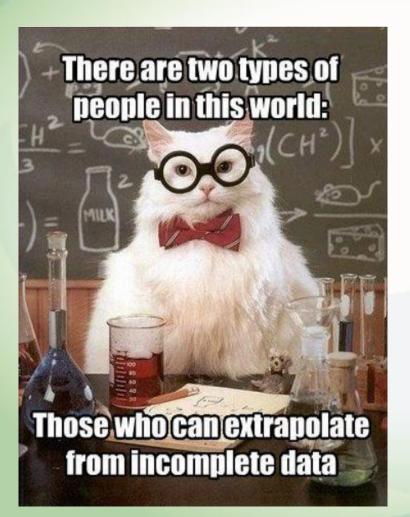
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#### Results



## Wild Thing 1

We are drawing general conclusions from an experiment with a very limited amount of data.

- The part of circulation that is renewals
- Checkouts per
   100 visits



## Library Locales

U.S. Census Bureau locale codes are based on the proximity of an address to an urbanized area, which provides a means of better comparing library data in terms of the region a library serves:

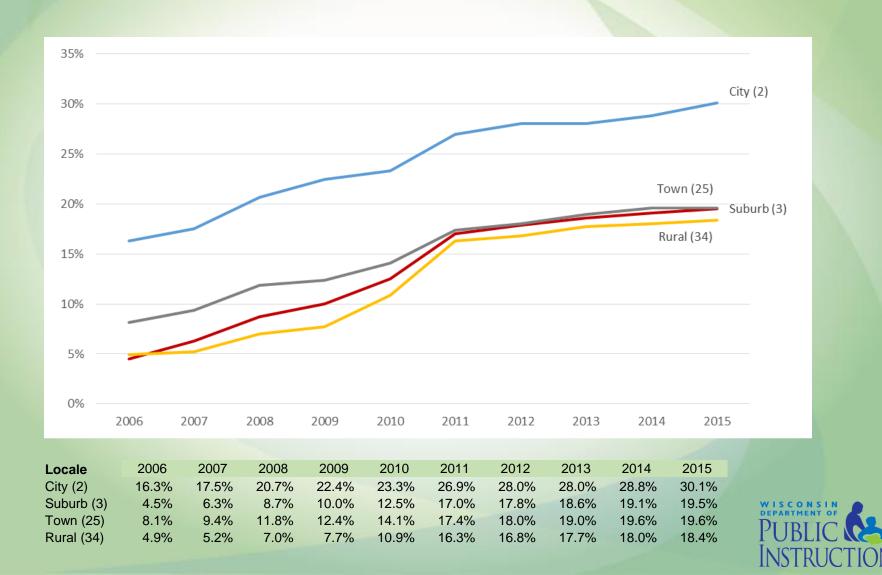
\*(16) City Large, Midsize, and Small
(46) Suburb Large, Midsize, and Small
(98) Town Fringe, Distant, and Remote
(221) Rural Fringe, Distant, and Remote

See <a href="mailto:nces.ed.gov/ccd/rural\_locales.asp">nces.ed.gov/ccd/rural\_locales.asp</a>

\* Number of Wisconsin public libraries with the locale type



#### Renewal % of Circulation by Locale



#### Renewal % of Circulation by Locale



Town (52)

Rural (79)

16.7%

16.9%

17.6%

18.3%

18.5%

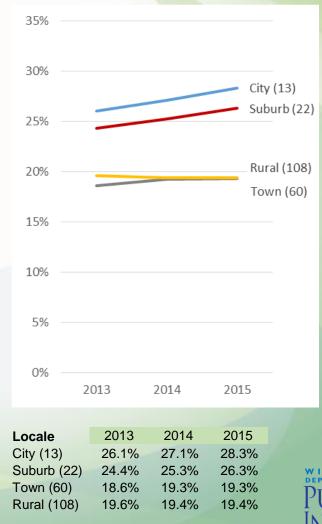
19.4%

19.1%

19.3%

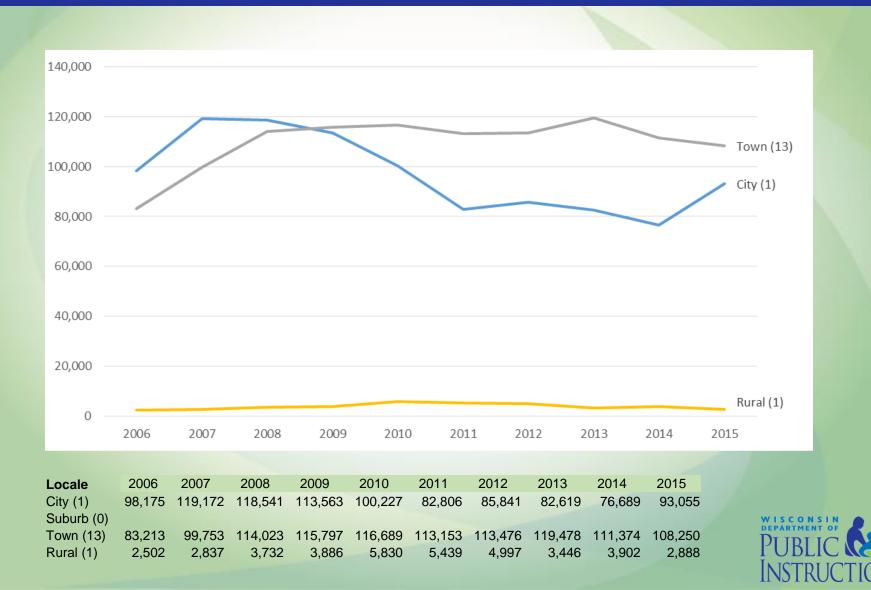
19.1%

19.4%

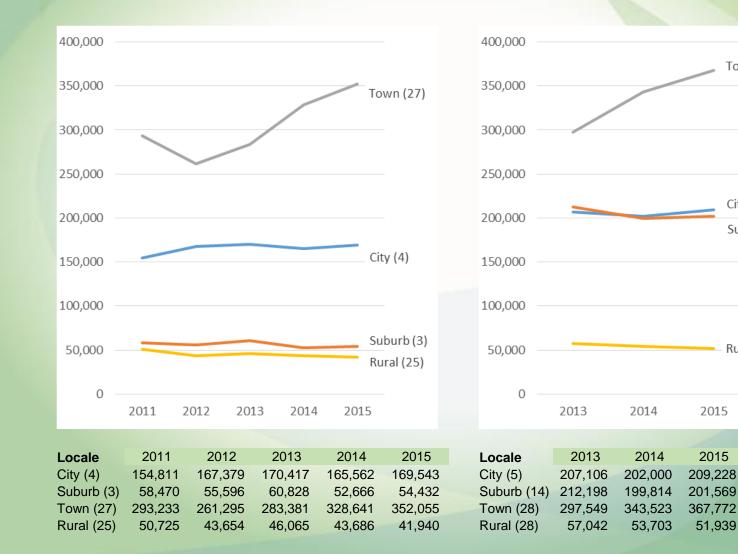




#### Staff Renewal by Locale



#### Staff Renewal by Locale



Town (28)

City (5)

Suburb (14)

Rural (28)

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#### User Renewal by Locale



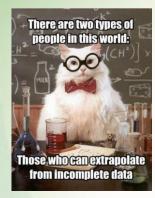
#### User Renewal by Locale







## Staff and User Renewals



## Wild Thing 2

Renewals by locale

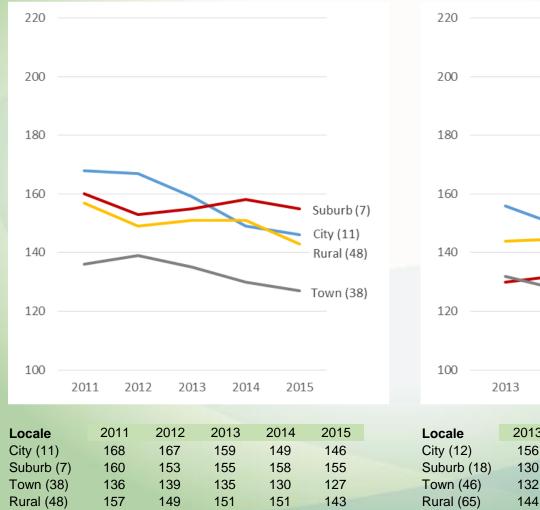
- Overall, the percentage of staff renewals is not decreasing. In fact, it's increasing at libraries in town locales.
- User renewals appear to have peaked.



#### Checkouts per 100 Visits by Locale



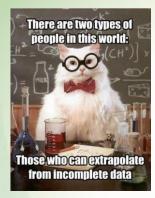
#### Checkouts per 100 Visits by Locale







## Checkouts per 100 Visits by Locale



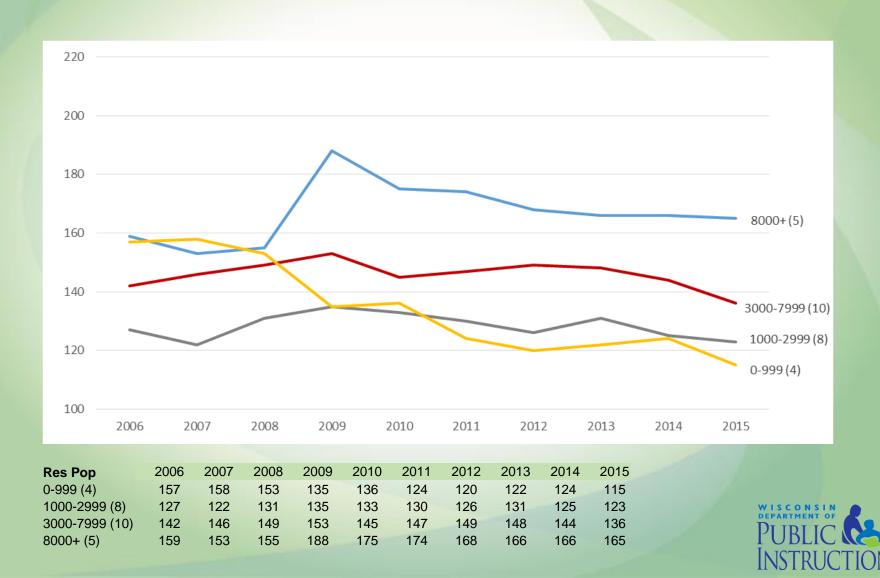
## Wild Thing 3

Checkouts per 100 visits by locale

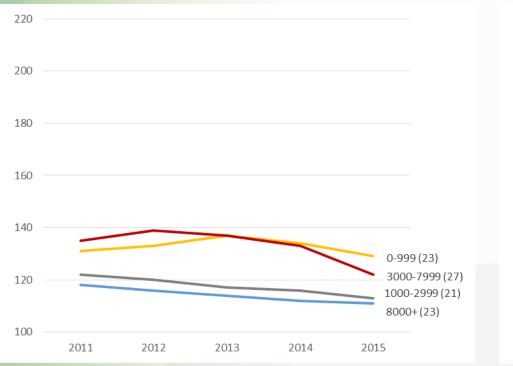
- Larger changes in this data actually represent a smaller number of items.
- Although operating at different levels, checkouts at libraries in city and rural locales appear to be converging.



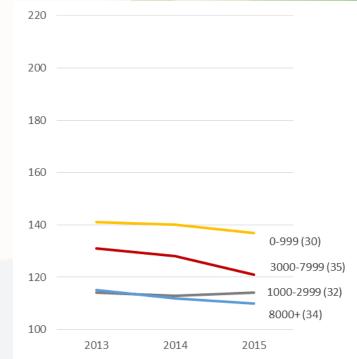
## Checkouts / 100 Visits by Population



#### Checkouts / 100 Visits by Population



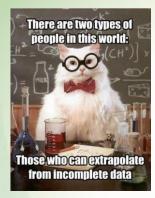
Res Pop	2011	2012	2013	2014	2015
0-999 (23)	131	133	137	134	129
1000-2999 (21)	122	120	117	116	113
3000-7999 (27)	135	139	137	133	122
8000+ (23)	118	116	114	112	111



Res Pop	2013	2014	2015
0-999 (30)	141	140	137
1000-2999 (32)	114	113	114
3000-7999 (35)	131	128	121
8000+ (34)	115	112	110



## Checkouts / 100 Visits by Population



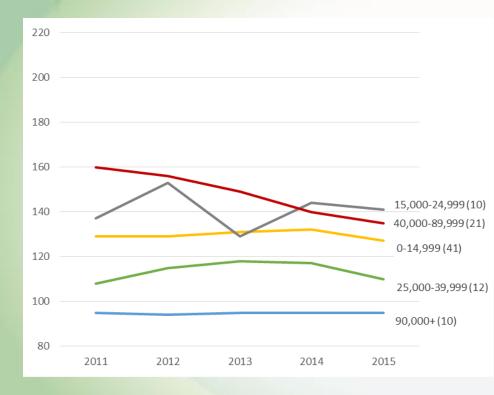
## Wild Thing 4

Checkouts per 100 visits by resident population

- In recent years, libraries in smaller municipalities have higher checkouts than larger municipalities.
- Recession circulation peaks appear in different groups (locale, population), suggesting a need for multiple factors.





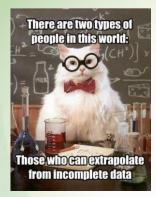


Collection Size	2011	2012	2013	2014	2015
0-14,999 (41)	129	129	131	132	127
15,000-24,999 (10)	137	153	129	144	141
25,000-39,999 (12)	108	115	118	117	110
40,000-89,999 (21)	160	156	149	140	135
90,000+ (10)	95	94	95	95	95



Collection Size	2013	2014	2015
0-14,999 (47)	132	133	128
15,000-24,999 (16)	117	127	126
25,000-39,999 (20)	116	116	113
40,000-89,999 (30)	140	134	129
90,000+ (18)	102	100	98





## Wild Thing 5

Checkouts per 100 visits by collection size

• Size of collection does not assure higher checkouts per visit



## Putting It All Together

## What's the big picture?

All of the trends we've shown are (generally) true.

Individually, none of the trends are true enough.

Checkout data won't help public libraries much unless it can be presented in terms of a combination of visits, library locale, resident population, and collection size.



## Putting It All Together

 $\mathcal{D}$ A recipe for data sausage Average each resident population for 3, 5 & 10 years. Average each collection size for 3, 5 & 10 years. Assign numerical values to locales. Multiply the three numbers for 3, 5 & 10 years. Group results into ranges of values (A B C D). Graph checkouts per 100 visits by the ranges.



## Putting It All Together

#### Examples

Madison Public Library 2013-2015

- Average resident population 240,123
- Average collection size 780,463
- City, Midsize Locale 42
   Result ÷ 1,000,000 7,871,099 (A)

Rock Springs Public Library 2013-2015

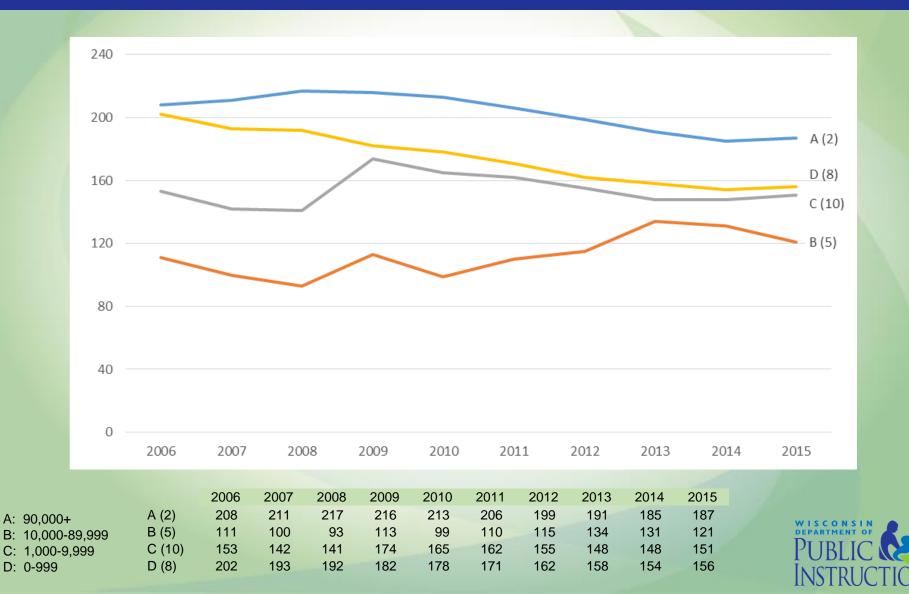
- Average resident population 313
- Average collection size 8,954
- Rural, Distant Locale 12
   Result ÷ 1,000,000 34 (D)

#### 2013-2015 ABCD Ranges

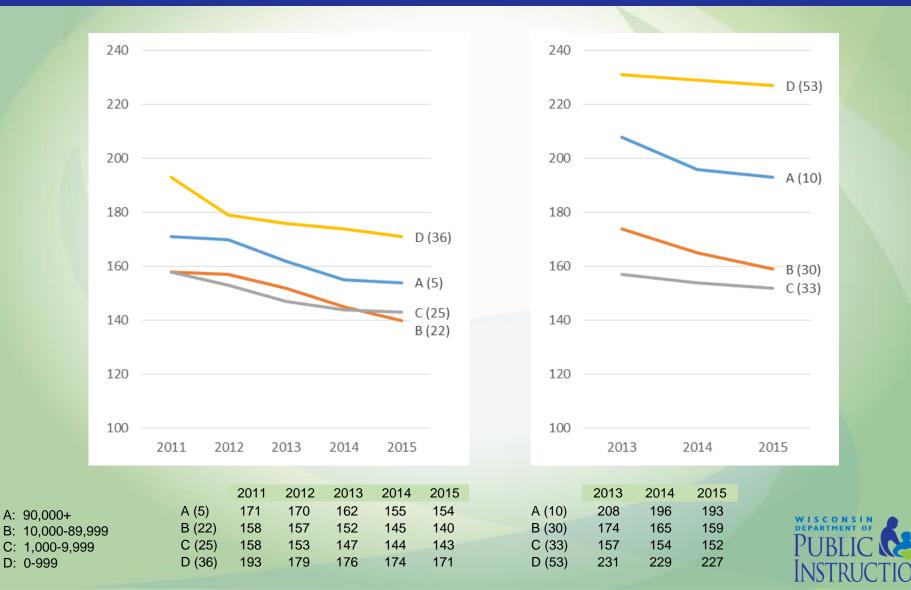
A 90,000+ (10)
B 10,000-89,999 (30)
C 1,000-9,999 (33)
D 0-999 (52)

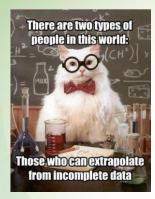


## Checkouts / 100 Visits by ABCD



## Checkouts / 100 Visits by ABCD





## Wild Thing 60 (3 x 4 x 5)

- When people come to their public library, they continue to check out comparable amounts of material.
- Overall, staff renewal is not declining. User renewal is less in recent years.
- Checkouts are higher for libraries at both ends of the ABCD range.
- In middle ranges, checkouts appear more susceptible to change.



#### Is our experiment worth continuing?

If this work is valuable to you, DPI needs data that is more complete:

- Visits by actual count at all public libraries and library branches
- Checkouts of material by library and branch
- User renewal of material by library and branch
- Staff renewal of material by library and branch



# How can DPI help make that happen?

What do the libraries and systems need?



Systems voluntarily participated in this project and used their time to compile large amounts of data. Thank you.

Would you support further exploration of circulation data by material type?



Thirty years ago, the public library community agreed that circulation of material was a reasonable and accurate measure of overall library service use.

What other data should also be collected or better collected about library use?



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Public Library Development Team: <u>dpi.wi.gov/pld</u> Presentation PDF: <u>tinyurl.com/16WAPLcirc</u> About locale codes: <u>nces.ed.gov/ccd/rural\_locales.asp</u>

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