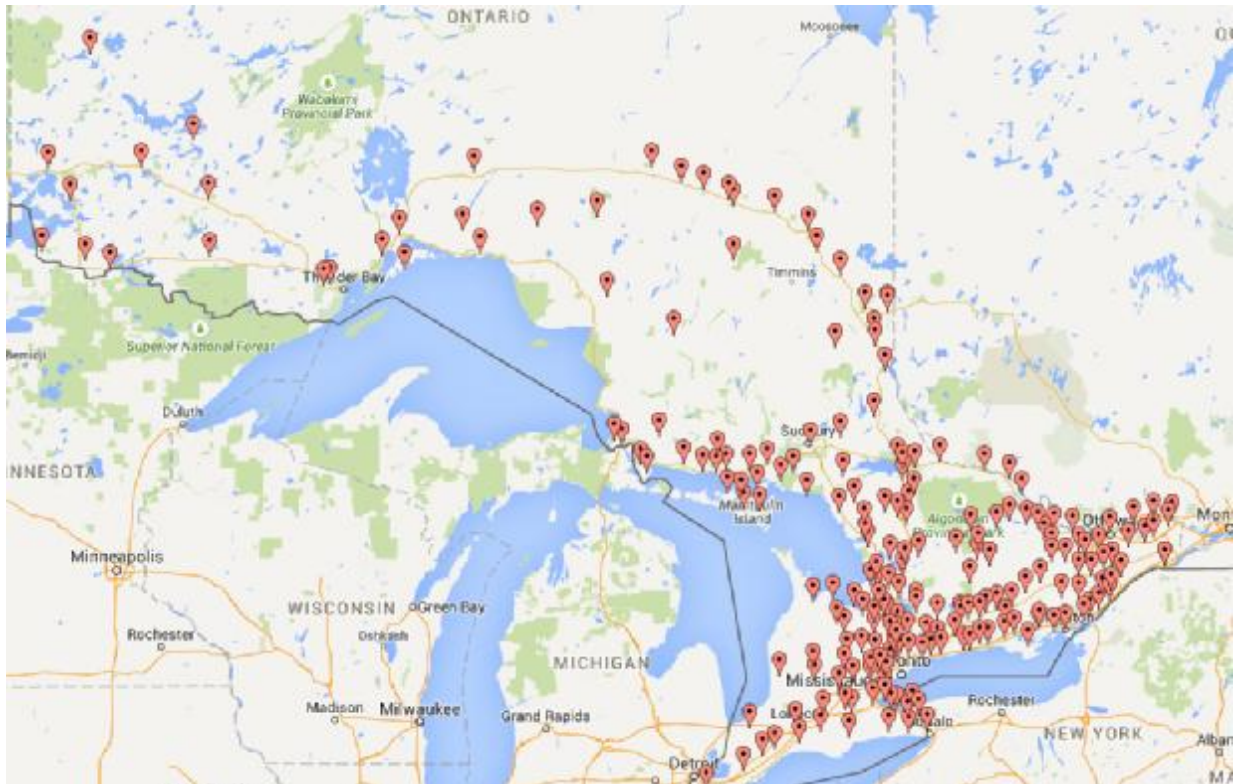


**Federation of Ontario Public Libraries  
Ontario Public Library Operating Data 2006-2015  
Overview, Primer on Library Statistics and Collected Tables**

Robert E. Molyneux, MSLS, PhD, Statistician  
Stephen Abram, MLS, FSLA, Executive Director, FOPL

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**ONE VOICE FOR ONTARIO PUBLIC LIBRARIES**

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## Introduction<sup>1</sup>

*Stephen Abram, MLS, Executive Director, FOPL*

This document is a very critical and essential watershed moment for public libraries in Ontario. With the First Ontario Culture Strategy, the Ontario Cabinet's investigations into the role and importance of Community Hubs, and the focus on Indigenous public libraries, we can mine from these data insights into the value and impact of our sector on the residents of our province. Importantly, we also have throughout 2017 the Public Library Program Funding Review in the context of these overall initiatives at the provincial level. With the work done by FOPL over the past few reports we now have a handle on our numbers and data based proofs to communicate our value. Combined with our other activities in marketing, social media, and research we have never been more prepared to react to government initiatives and, ideally, to get ahead of the curve and report our sector proactively in the public forum.

This report covers the highlights of these data as well as documenting some current trends through 2015 – the latest data available.

This editorial introduction is an overview of our process at FOPL. The Federation of Ontario Public Libraries has been investing over the last 30 months in statistics for Ontario's public library systems. To this end we have:

- Participated in CLA task force on national statistics
- Hosted 3 iSchool symposia on future measurements for libraries
- Lobbied for open data for Ontario public libraries (win!)
- Published a longitudinal analysis of Ministry data collection for 2001-2010 and 2001-2013, 2001-2014 and *now through 2015*.
- Published Market Probe opinion polls for 2015 (building on 2001, 2006, 2010 polls)
- Hosted and recorded several webinars about Statistics and Measurements in public libraries.
- Developed an index to compare libraries in Ontario on 21<sup>st</sup> Century strategic benchmarks that align with the role of libraries beyond just circulation and gate-count.
- Offered successfully custom reports based on these data to all libraries in Ontario.

In 2017, our FOPL goals were:

1. To continue the discussion of relevance and timeliness of Ontario public library comparative statistics.
2. Provide representation to the Ontario Government about our value and impact of public libraries as culture destinations, community hubs, and our economic and social impacts, in particular on Indigenous populations.
3. To work with our partners at OLA (OLBA & OPLA), CULC, SOLS, and OLS-North.

We are very pleased to be working again with library stats expert, Robert Molyneux, MSLS, PhD, for his excellent analytical skills and perspectives in developing our reports and his contributions to this discussion paper.

### FOPL Custom Peer Reports

Over the past year FOPL has been leading a pilot study of new measurements for Ontario's libraries based on the data we have from the Ministry of Tourism, Culture, and Sport. We have held webinars and symposia on statistics in libraries and offered a white paper for discussion of new measures for Ontario libraries. We are pleased to offer customized reports to our members for their research, advocacy, and strategic planning needs.

### About the FOPL Custom Reports Service

The Federation of Ontario Public Libraries has continued working on data compiled by the Ministry of Tourism, Culture, and Sport on those libraries. With the publication and distribution of FOPL's

recompilation of these data, there is now a large, rich dataset about Ontario's public libraries. The data span the years from 2000 through 2015 so that one can analyze data on all libraries or any subset of libraries and also analyze trends by following the data over a set of years.

The dataset is quite rich and the Ministry has done a wonderful job in structuring the data. What can be done with this resource? Of course, various groups will be interested in different uses of these data. FOPL has already issued survey reports exploring these data with an eye to using them to assess the state of Ontario's public libraries for assessing our health as a community and driving the communication of the value and impact of public libraries in our advocacy role. As that work is fleshed out, these assessments can be used to inform policy decisions affecting Ontario and the nation. But the history of library data shows the primary use of such data has been to analyze individual libraries or groups of libraries and to compare them. Typically, it is to examine libraries "like mine," and the results of these data analyses are often seen in the stories that are teased out of the data.

How does my library compare with others? Which libraries are like mine by this or that criterion? What are they doing better than us—or not as well? What good stories—and bad stories—are in the data about my library and how can I use them to tell a compelling story to our library's funding agencies? The data can be a directory to libraries "like mine" and suggest investigating those similar libraries to see how they dealt with problems your library has.

There are many ways to choose which libraries are alike. Normally, libraries are grouped by size but there are other ways to choose libraries to compare to yours. They can be analyzed by region, county, similarities in budget or collection, and so on. Often, too, what is of interest to a librarian is to examine with data what is of interest to those involved in funding that librarian's library.

In other words, the data can be looked at in many ways and to address many questions. The dataset is available to FOPL members but it is a large and complex dataset and good, flexible analysis will require skill and experience. Those skills involve manipulating the data, sensing unexpected surprises in the data, and knowing how to present the data in a compelling way. After all, with our audience, pages of tables with number upon number is not as useful as seeing the story the data tell and saying it in clear language. To this end our initial offering is to provide simple reports that tease out specific measurements that our research tells us are of interest to you - as planners, management, CEO's or board members. Our tradition in Ontario has been on volumes of data and not as much on common analyses and measurements. With the successful introduction of open data for the Ministry's public library data, we now have this opportunity to learn from our data in a more accessible way.

### **What is available?**

We offer an array of reports on common variables with your library compared to similar libraries or we can compare on a broad-based set of data variables based on the experimental FOPL Index which uses 16 variables and ranks libraries by those ratios.

We offer a number of measures and their components in the fashion of an index with libraries ranked with their peers (your choice of peers) as well as a few select 'influencer' libraries that serve as major comparables. (Consider: How does my system compare on key measurements to TPL? You may be surprised!)

Here are the five major measurements derived from the Ontario Public Library Datasets:

### **Peer Comparison Notes**

The peer comparisons presented are based on data from the Ontario Ministry of Culture, Tourism and Sport's published 2014 Ontario library data.

**The comparisons take these data and sort them into 17 separate variables and organizes them in five “dimensions:” Service, Usage, Community Engagement, Efficiency, and Development.** This design is discussed in some detail elsewhere but, simply, it is based on a study of four well-known public library assessment efforts: the BIX, HAPLR, the IMLS US state ranking tables, and the LJIndex. These all use ratios of different reported variables—rather than the raw data—and then assign ranks to the calculated ratios. Those ranks are in order by which numbers are “better.” Lower number ranks are better because 1 is the top rank.

The Ministry’s data series are very rich and offer more opportunities for exploring variables within this design. We have largely followed the example of the current literature for now.

The most common use of these data is to use them to analyze “peer” libraries. What is a “peer” library? It is a library you wish to compare to yours. The comparisons will be based on data.

Data do many things well but not everything. They give you a measure and it is up to you to weigh the evidence from the data in order to learn how your library compares with your peers. They do not measure everything, however, and are weak in analyzing qualitative aspects of a library.

How to pick your peers depends on your interests and objectives. You may wish to compare to libraries in your area, or to libraries with similar users, or to libraries you wish to emulate. These data will not give you one big number but 17 and those must be considered and weighed in light of your library and its peers in the context of your strategic plan priorities, vision, mission and goals. Efficiency is something we all want but it can work at cross purposes to Service. So: balance. Weigh the evidence and it will often be one step in a process.

As mentioned, the data are calculated and then ranked. The comparisons are simple unweighted ranks. Yes, ranks are often weighted but the first presentation are unweighted. Weighting recognizes that some variables are more important than others and handles that reality. There are ties in the ranks when libraries have the same raw scores. In those cases, the ties get the same rank while the next library is ranked where it would be if there were no tie. That is, if two libraries had the best rank, they would be 1 and 1 and the third library would have a rank of 3.

The data presented here are in several forms and with varying levels of detail depending on the detail needed for different views.

## Variable and Dimensions

Now we will outline the variables and dimensions. This discussion of variables is brief and the reader is cautioned to realize that in each case where the variable is described as a higher ratio or lower ratio is ranked better that what is left unsaid is: “all other things being equal.” They are not and that is why we have more than one variable to give you the context to understand your library and its peers as the data describe them.

The first dimension is **SERVICE** and it has four variables:

**Collection units per capita.** “Units” is defined broadly. This is a measure of how big the collections are for the size of the libraries’ resident populations. Higher is better.

**Employees per capita times 1,000.** This measure tells us how big the staff is to service the population. Higher is better. The calculation gives a small number and to make it easier to understand, we multiplied by 1,000. It can be thought of as so many people for each 1,000 in the resident population.

**Population per workstation.** This measure tells us how many workstations the library has. By dividing the population by the count of workstations, we have a number which indicates, how likely a library user is to find an empty workstation. Here, a lower ratio is better. Consider: is it better to have 10,000 people per workstation or 100?

**Population per service point.** Service points are broadly defined to include places where people will have physical access to the library. They can include bookmobiles, branches, and deposit stations. Again, a lower ratio is better. Is it better to have 10,000 users per service point or 100?

## USAGE

This dimension has three variables related to the actual use of the library.

**Stock turnover** is a traditional measure: how many times is each item (on average) checked out? Here total annual circulations are divided by a count of circulating items held. Higher is generally better.

**Circulations per capita** is another well-known calculation. Annual circulations divided by resident population. Higher is better.

**Program attendance per registered borrower.** How many of the libraries' cardholders attend the libraries' programs. The reported number in the detailed tables is 100 times the raw calculation. Total annual program attendance divided by the reported number of library cardholders. Higher is better.

## COMMUNITY ENGAGEMENT

This dimension is new to the world of library assessment and it was created to get a handle on an important set of changes occurring in the library world: the modern library is not a passive organization waiting patiently for people to appear but one increasingly looking for opportunities to meet its public wherever they are and wherever they have information needs. The four measures in this dimension are an attempt to measure how libraries are adapting.

**Programs offered per capita.** The higher ratio is better.

**Registered borrowers per capita.** What percentage of the libraries' resident populations have library cards? Higher is better but we have documented how this percentage has been declining in Ontario's libraries. Caledon Public Library is low to their peer group which is an opportunity and correlates to facilities readiness.

**Hours open per capita times 100.** Hours open includes not just buildings but bookmobile and deposit station hours. More hours open per person although as we know, a library's electronic presence is open for business at all hours. Higher is better.

**Estimated Annual Visits per capita.** This ratio is the result of a complex calculation. Visits are tracked as "Typical Week" data so the data presumably re for one week. The population is an annual figure so the visits were summed and then multiplied by 52 and that product divided by the resident population. Visits are of three types: In person, electronic (to the libraries' Websites,) and electronic (to the libraries' social media sites.)

## EFFICIENCY

This dimension occasionally works against the others. Service is better with more staff, money, and service points but more economical if these are balanced by care in allocating resources. It is always a



matter of balance and by looking at your peer libraries, you can see how they made the same kinds of balancing decisions that your library must make.

**Collection expenditures per circulation.** Lower is better. That is, more circulations per dollar spent is better than spending many dollars per circulation.

**Estimated Visits per open hour.** Visits, again, come from “Typical Week” data and given that these figures and the open hour figure are both weekly figures, there is no need to do more than sum the number of visits and divide by the number of open hours. Higher is better: more people visiting is better than fewer people. Note that electronic visits are included and that these can occur when the library’s buildings are not open.

**Total Expenditures per estimated annual visit.** Total operating expenditures of the libraries divided by the annualized visit figure to give an imputed cost per visit. Lower is better. It is better to have more visits per dollar spent.

## DEVELOPMENT

The attempt here is future oriented.

**Staff Training as a % of Total Operating Expenditures.** This number is times 100 so these are the percentage figures. Staff training in this day and time is important but with library budgets being stretched, helping staff keep up with new developments by training or conference attendance is a difficult thing. But: higher is better.

**Total Operating Expenditures per capita.** This is an important number and one that affects the whole operation of the library including what it does and can do to prepare for the future. Higher is better.

## Fees

2 reports have been done so far for select Ontario public library systems.

**Basic foundations report:**

2015 data (latest available) - all measures. \$500.00 CDN (\$1000 for non-members)

**Trends Report:**

2012-2015 Data (latest available) - all measures. \$750.00 CDN (includes basic report) (\$1500 for non-members)

In addition we have the capacity to compare your system to a few other jurisdictions in Canadian provinces as well as all libraries in US states. We can also provide regression analyses.

It is our hope that this paper and our statistical analyses will serve as an important launching point for broader discussion in our community on what WE NEED with respect to statistical data, provincial benchmark measurements, and historical context for our annual strategic planning reviews and new strategic plan development.

Combined with the completion of our 2015 Market Probe Canada Public Opinion Poll on Ontarians attitudes and Usage of Ontario’s Public Libraries, we have updated the FOPL public opinion polls done in 2000, 2006, and 2010. Each of these polls has provided insights into our operations and how we remain successful at fulfilling our public mandates.

I am excited that our analyses show that public libraries are at two tipping points. Traditional library measurements peaked or plateaued in 2010. Modern library measurements that include our emphasis on programs and digital usage show that we are on a new arc and digital usage appears to be exceeding in-

person usage for the first time in 2015. It is truly an exciting time for our important and value-laden sector.

FOPL has been very active these past three years. The membership investments in research, marketing and advocacy on a collaborative basis are bearing fruit at costs that would be unaffordable to individual library systems. The return on investment for your membership in FOPL has never been stronger! We can report significant progress in all three Federation of Ontario Public Libraries strategic objectives in 2016: Research and Development, Marketing, and Advocacy.

This discussion paper educates you in the background in our 'new' measurement and communication opportunities as they apply to libraries and how they can be used for analysis, ranking and comparisons of Ontario public library performance from 2001-2015. Credit is due to our Ontario Ministry of Culture, Tourism and Sport for jumping on the open-data trend and making the raw data that public libraries have contributed since 1998 available for further analysis and usage, and we thank them for their efforts. The Ministry has provided some funding in 2015 in addition to FOPL funds to this project to update the data, and to make some comparisons to the public libraries in US states and Canadian provinces. This is great and our sector's data is now fairly current for the first time in many years.

I believe that that these projects provide strong value for public libraries from the data our sector has provided for many years and underpins communication of our value that show the Ministry and the public the strong impact of public libraries from their long-term investment in our libraries.

### **We have a grand plan!**

With special funding from the Libraries 2020 project FOPL engaged a consultant to study the branding, communication and marketing status of Ontario Public Libraries. We have received the Phase 1, 2, and Phase 3 reports and have distributed a final report to SOLS/OLS-North and our FOPL members. In 2017 we continued this work to develop an over-arching tagline that we have tested in English and French with Ontario residents. This will lead to a province-wide marketing campaign with a clear call-to-action in which you will be asked to contribute and participate.

## **“A Visit Will Get You Thinking.” or “Une visite: ça fait réfléchir.”**

We are building our community's dreams about a major marketing push province-wide for public libraries in Ontario to promote our *value* and *impact*. How do we complement promoting our branches, collections and programs and local marketing with a collaborative push? Can we raise awareness, library usage, and the number of cardholders of public libraries in Ontario? How do we turn these dreams into a reality?

In 2014, we asked ourselves, “What do we need to know?” We need to know a lot before we make an investment in a province-wide marketing campaign and we have made great progress. For the branding project we:

1. Did a census of public library e-presences (websites, social media and social networking). This may be a critical channel for marketing libraries across our province.
2. Collected public library taglines from their websites. The word cloud below shows how we represented ourselves in 2014.
3. Reviewed the research on major public library "value" branding campaigns in Canada and the U.S.
4. Held focus groups and interviews with key internal and external stakeholders including librarians, library staff, library board members *and* municipal administrators.

This Wordcloud on the next page shows the key terms from public library taglines (larger font size indicates that this word is used in more taglines at Ontario public libraries. In 2017, we will have more pieces of the stats pie that we need to plan some initiatives around marketing and advocating for public libraries and our value and impact – one of your goals expressed in the Libraries 2020 Vision (and indeed



our latest Libraries 2025 Summit). To this end we will have much of the research and information we need to plan for future needs. We will have:

- Longitudinal Statistics Data on Ontario public library performance (2001-2014)
- 2015 Data on our marketing channels, market positioning, and preparedness for a 'push'
- Insights from stakeholders in libraries, boards and municipalities.
- A 2015 public opinion poll of Ontarians attitudes towards public libraries and how they've changed from our 2000, 2006, and 2010 polls.



We are better prepared than ever to do local system strategic planning as well as engage in province-wide collaborative strategies. It's an exciting effort and we're getting there. We're trying to be strategic, plan well and provide you with the information you need to plan locally in your community. We're here to support you.

*January 30, 2017*

Stephen Abram, executive director  
FOPL: 416-395-0746  
[sabram@fopl.ca](mailto:sabram@fopl.ca)

## A Primer on Library Data

Robert E. Molyneux, MSLS, PhD

***Data are a type of evidence...numerical evidence...which can be used to understand phenomena and with that understanding make informed decisions.***

This Primer presents a general discussion of the characteristics of library data; that is, things we always find, and how they have been dealt with historically. This version of the *Primer* is more than a minor revision from earlier versions. It does include tweaks and updates based on newer data but also discusses expected relationships between a few data elements and that discussion suggests newer analytic possibilities.

It is one of life's curiosities that many of the oldest numbers that exist in historical sources are data from early libraries. We know a bit about collections of cuneiform tablets in the ruins of the Royal Library of Ashurbanipal and the numbers of scrolls at the great libraries of Pergamon and Alexandria. Sadly, we do not know exactly what those numbers mean or how to compare them to what data we have about libraries today. How many terabytes would the scrolls of Pergamon take up, for instance? How would these scrolls compare to physical volumes held or electronic resources?

It is fashionable to denigrate library data but, in fact, there are many pretty good series of library data. Many fields have difficulties with their data but if you believe economic data are the gold standard, Morgenstern's *On the Accuracy of Economic Data* will disabuse you. However, economic data exist in an analytical culture with many analysts interested in using them and as they use them, the data improve. We in the library field do not have such a culture and a happy few are interested or capable of analyzing library data beyond basic comparisons and budget documents.

Data are a type of evidence...numerical evidence...which can be used to understand phenomena and with that understanding make informed decisions. Numerical data are not the only kind of evidence we can adduce in decision making but an important one, nonetheless and one largely missing in the library world but not, however, in the worlds of agencies of funding or government, nor the many competitors who offer many functions of the traditional library.

Historically, librarians have used data primarily in budget justifications and these are of a form where our library is compared to others which are like our library or which we would like to be like. The formula is: we have done very well in these categories and

have gone up X % compared to A, B, and C libraries and we appreciate the support in these initiatives. This has been a successful project. Unhappily, however, we have fallen behind in these other categories D, E, and F, and we are not keeping up in these areas.

The data series we have, largely, support this kind of effort to support budget requests. However, data created for one purpose can be used for others, such as assessing programs and initiatives or understanding underlying processes. With luck, we can address the question of “what works?”

In the public library world, we typically use libraries “like ours” which will usually be close in size or known to the community other ways. The large libraries or those with a distinguished reputation will compare themselves to large libraries in the province or nationally known libraries or similar libraries in their peer group, that is, anywhere in the world. They live in a different funding environment from most libraries.

A second major use of library data is as a directory: who has a collection/population/ use pattern which looks like ours? That provides a way of identifying people to talk to at meetings and libraries to visit. Sharing of information takes place as a result of this kind of semi-formal directory searching and seems to be one driver in the improvement one sees in newly collected variables as librarians and compilers sort out and refine the meaning what is being asked for.

### **Separating Libraries by Size Bands**

The variable most commonly used in the public library world to match similar libraries is the resident population which is served by the library. The Ministry uses this number to segment the libraries by size of this population and this practice is standard with public library data. In series after series, current and historical, one finds separations of public libraries by size in resident population. Why separate by size? Because libraries are of vastly different sizes. The eight largest Ontario libraries had 50% of the resident population of the province's libraries in 2015, 57% their circulations, and 53% of their total operating expenditures. The other 302 libraries reporting that year had the rest. This kind of result is consistent in any year and is typical for most library data series and, indeed, much social science data. Let us illustrate this fact with data from the Ministry's series before discussing this fact further.

Below are summary data from three sets of Ontario's public libraries from the 2015 data. We first take the eight libraries in Band 1 in 2015. The Ministry's grouped the Ontario libraries in Bands by size of resident population. We use these Bands in the main report that follows and will discuss them further there. Band 1 consists of those libraries with a population greater than 250,000. These are large libraries and, as noted, comprise a large proportion of the various statistics. The second group summarized below are ten libraries about in the middle of the 310 libraries reporting data in 2015 while the third group includes the ten smallest libraries. Here are those data:

Rank	Library		City	Population (Resident)	Total Annual	Total
	Number	Library Name			Direct Circulation	Operating Expenditures
1	L0353	Toronto	Toronto	2,826,498	32,505,963	192,017,627
2	L0481	Ottawa	Ottawa	960,754	11,425,711	47,127,634
3	L0206	Mississauga	Mississauga	764,000	6,385,679	26,424,152
4	L0041	Brampton	Brampton	580,600	5,062,877	16,269,771
5	L0474	Hamilton	Hamilton	550,700	6,473,602	30,818,824
6	L0245	London	London	381,310	3,869,642	20,836,559
7	L0099	Markham	Markham	349,884	4,581,729	14,621,212
8	L0359	Vaughan	Vaughan	323,500	3,186,341	14,739,507
150	L0136	Douro-Dummer Twp	Douro	5,976	6,431	108,814
151	L0273	Powassan & District Union PL	Powassan	5,840	45,901	266,053
152	L0482	Whitewater Region	Beachburg	5,754	15,490	86,648
153	L0080	Bonnechere Union	Eganville	5,544	23,448	337,943
154	L0052	Espanola	Espanola	5,364	43,328	348,384
155	L0117	Cochrane Public Library Board	Cochrane	5,340	36,775	433,888
156	L0031	Sioux Lookout	Sioux Lookout	5,336	42,634	457,914
157	L0119	Cramahe Twp	Colborne	5,298	55,479	241,358
158	L0160	Gananoque	Gananoque	5,194	29,319	191,343
159	L0165	Oliver Paipoonge	Murillo	5,174	23,619	127,397
301	L0179	Head, Clara & Maria	Stonecliffe	201	4,225	14,743
302	L0460	Henvey Inlet FN	Pickerel	189	1,450	26,730
303	L0418	Shawanaga FN	Nobel	182	1,858	21,159
304	L0403	Dokis FN	Via Monetville	176	1,120	44,327
305	L0428	Mattagami FN	Gogama	170	1,500	36,280
306	L0419	Sheshegwaning FN	Sheshegwaning	112	1,000	18,201
307	L0422	Thessalon FN	Thessalon	106	50	26,036
308	L0407	Magnetawan FN	Britt	75	135	21,188
309	L0464	Michipicoten FN	Wawa	65	1,225	29,943
310	L0440	Mississaugas of Scugog Island FN	Port Perry	48	50	14,713

The column on the left has the rank of the library in terms of the population. There are 310 in the spreadsheet from which these data were generated. That spreadsheet includes data from all libraries which reported data in 2015. What we see here is common in libraries: a few big libraries and many, many smaller libraries.

In generalizing about this kind of fact, the term of art is to discuss the “distribution” and one can generalize about distributions including the distribution of the size of libraries, their expenditures, circulation, etc. A distribution like what we see in library sizes is called “skewed.” In the library world, we often talk about the “80-20 rule,” or similar terms to describe this fact of our world. Library distributions are commonly skewed. It is a well-known distribution and that fact implies there are known techniques we can use in analyzing libraries.

This skewed characteristic we see here makes sense, doesn't it? Large populations served by libraries will generally have higher expenditures, bigger collections, bigger staffs, and so on than most libraries. It is easy to understand why a librarian at any of these libraries would seek to compare his or her library with one of similar size. What do the libraries in each group have in common with the libraries in the other two groups? The smaller libraries exist in almost a different universe from their larger brethren. This is the reason that the Ministry created the 8 Bands by the size of library. We use those Bands in this report (and have added a 9<sup>th</sup> to include the First Nations' libraries) for similar reasons: to provide comparable libraries for the broad comparisons this report permits.

We can still compare these libraries and one common method is to analyze statistics calculated from the data at hand. Per capita measures are common.

Circulations per capita are calculated by dividing annual circulation by the resident population. Expenditures per capita are calculated in a similar fashion...as per capitass commonly are.

A more complex picture is visible with this second look at the data, we can see that many of the smaller libraries have as active a circulation pattern. Many have operating budgets with as many dollars per its population....but not all. We can identify

a few libraries that seem to have lower use and quite small budgets compared to others. We have, then, a means of finding libraries which might need help and smaller libraries which are doing a good job with what they have.

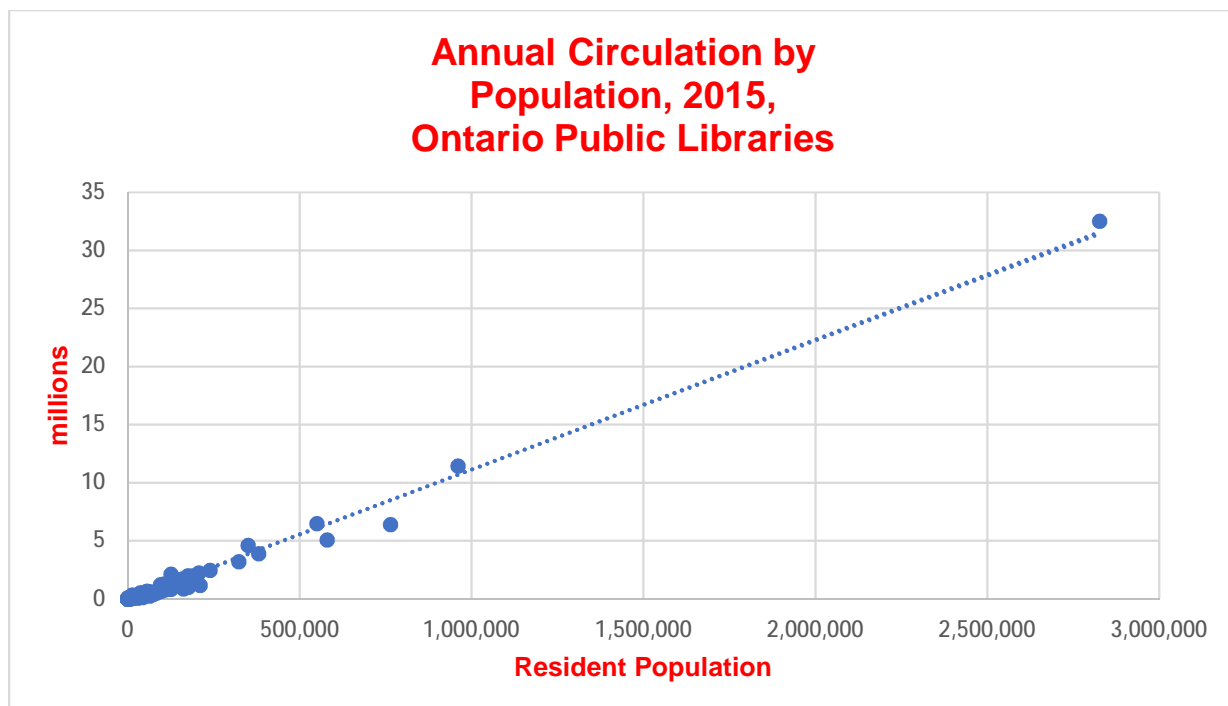
Rank	Library			Circulations per capita	Expenditures
	Number	Library Name	City		per capita \$
1	L0353	Toronto	Toronto	11.5	67.93
2	L0481	Ottawa	Ottawa	11.9	49.05
3	L0206	Mississauga	Mississauga	8.4	34.59
4	L0041	Brampton	Brampton	8.7	28.02
5	L0474	Hamilton	Hamilton	11.8	55.96
6	L0245	London	London	10.1	54.64
7	L0099	Markham	Markham	13.1	41.79
8	L0359	Vaughan	Vaughan	9.8	45.56
150	L0136	Douro-Dummer Twp	Douro	1.1	18.21
151	L0273	Powassan & District Union PL	Powassan	7.9	45.56
152	L0482	Whitewater Region	Beachburg	2.7	15.06
153	L0080	Bonnechere Union	Eganville	4.2	60.96
154	L0052	Espanola	Espanola	8.1	64.95
155	L0117	Cochrane Public Library Board	Cochrane	6.9	81.25
156	L0031	Sioux Lookout	Sioux Lookout	8.0	85.82
157	L0119	Cramahe Twp	Colborne	10.5	45.56
158	L0160	Gananoque	Gananoque	5.6	36.84
159	L0165	Oliver Paipoonge	Murillo	4.6	24.62
301	L0179	Head, Clara & Maria	Stonecliffe	21.0	73.35
302	L0460	Henvey Inlet FN	Pickerel	7.7	141.43
303	L0418	Shawanaga FN	Nobel	10.2	116.26
304	L0403	Dokis FN	Via Monetville	6.4	251.86
305	L0428	Mattagami FN	Gogama	8.8	213.41
306	L0419	Sheshegwaning FN	Sheshegwaning	8.9	162.51
307	L0422	Thessalon FN	Thessalon	0.5	245.62
308	L0407	Magnetawan FN	Britt	1.8	282.51
309	L0464	Michipicoten FN	Wawa	18.8	460.66
310	L0440	Mississaugas of Scugog Island FN	Port Perry	1.0	306.52



In looking at the raw data as we did first, one can easily conclude that the various libraries are almost in completely different worlds if we consider them only by their sizes. True, there are major differences, however, the ratios indicate that there are many similarities and that some smaller libraries seem to do better than some of the larger libraries by these quantitative measures. Quantitative measures do not measure everything a library does but they do give us a picture and present evidence to be weighed considering the library context.

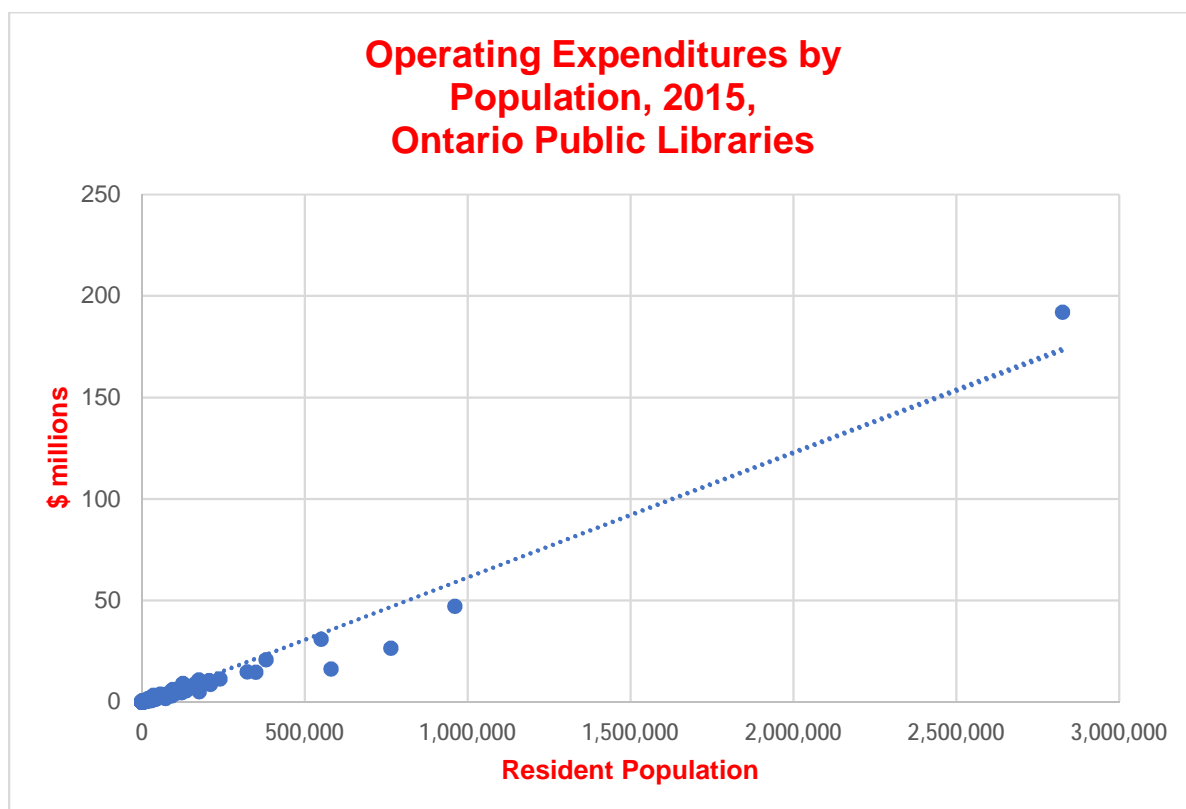
Another indication of the similarities can be seen in scatter plots. Look at the following graphs to see what a scatter plot looks like.

The first plots the number of annual circulations on the vertical axis and the resident population on the horizontal axis. For example, Toronto Public Library has a population of 2.8 million and its annual circulations for 2015 were 32.5 million. If you look at the graph below, you will see a blue dot at the intersection of those two values in the upper right-hand corner. Each dot on that plot represents the intersection of those two values for each library reporting them.



We now see graphically the same spread of these libraries by the sizes of these two measures. Toronto, as we expect, has the largest of both numbers but following down the line connecting all the observations, you can easily count out the dots representing the 8 libraries in Band 1. Then comes the bulk of the libraries. If the graph were larger, we could see the points of all libraries but there is little to distinguish these libraries quantitatively by this graphic method. The math is more precise. However, this method does highlight an important fact: the line connecting them is relatively straight and the dots are not spread around randomly as often happens in scatter plots. The fact is that the two variables plotted here are highly correlated. What the reader is looking at is a linear relationship. Those who took algebra will recollect that this line can be described mathematically. That is a useful characteristic.

Let's turn now to another scatter plot: total operating expenditures by population:



It looks similar to the first one, doesn't it? Now the vertical axis registers dollar expenditures in millions and the population is on the vertical axis as above. We see also see the large libraries separated from the rest of them. In effect, this graph shows us that running a library requires a budget and that budget is related to the population served by the library. We are looking at a representation of what might be considered the revealed experience of the relationship between those two variables. That is, the data suggest that there is a relationship. We have not stated any guidelines or recommendations, we merely point out that a relationship exists.

As noted, we can mathematically describe that line and also describe how good it is—that is, how close the libraries are to the line. The two scatter plots show relationships that are quite strong. The details of that analysis are not the focus of this *Primer* so we will leave them to another time. But before we go on to the main report, note one more thing that should be of interest. Some libraries are above that line—like Toronto Public—and some are below, most visible being the next four largest libraries. What does that observation mean?

One way to look at it is that if we know a library's population, we can see what amount for operating expenditures is expected based on this strong relationship. If a library is above that line, its expenditures are greater than that expected amount but if expenditures fall below that line, that amount is less than is expected. That notion also seems useful. If your library falls above or below the lines in either circulations or budgets, what does that tell you?

This report that follows is the latest in a series FOPL has done for its members based on the Ministry data. As we have done in those earlier publications, we have a sampler of possible views of these data for the members. We have summary reports of what these libraries did using selected variables both from the 310 libraries in 2015 and the 302 that reported for the ten-year period from 2006-2015. As before, we have found what we believe are interesting results. Largely what we have presented here shows trends documented earlier continue. Traditional library measures have continued to plateau and many of the measures of the new aspects of the libraries' information environment have shown increases. Some of them are remarkable and worthy of note.

There are more data collected on variables measuring newer aspects of what libraries do. The Ministry started collecting a new set of variables in 2011. Experience has shown that, generally, it takes about three years for newly collected data to mature enough to have confidence in them. We now have those three years and have begun the analysis. It is too soon for this report but we will be publishing results from this analysis in the next few months.

As we have done in those earlier publications, we have a number of views of these data for FOPL members. We have summary reports of what these libraries did using selected variables from 2005-2014 and have found what we believe are interesting results which show substantial changes in how libraries are responding to the challenges of presented by the new information environment. There are 301 libraries which report each of those years so that is the group we have concentrated our efforts on because comparisons year to year will have the same libraries so that changes between years are not a result of a changing set of libraries. We have all of these libraries, then we have them by the size bands from the Ministry. Bands are used to group libraries of like size in resident population. But: why group libraries?

Of course, we can analyze the performance of any single library in any of the years of the data and look at any of its like libraries. However, what we have focused on is the state of Ontario's public libraries, that is: ALL, while showing that we can drill down.

Library data fluctuate. Things go up and they go down. This library has more money this year and that one has less. Smaller libraries may not have the staff to fill out the forms for the Ministry so they do the best they can. Last year the librarian retired here and the new librarian doesn't know where that number came from so numbers jump around. On occasion, a value will appear that is not believable. There is a library which is reported to have very large expenditure figures in 2006—so large, in fact, that these numbers affect provincial totals. We wrestled with these numbers and in an attempt to see the underlying story in the province tried dealing with these anomalous numbers in several not consistent ways. Things like this happen and analysts do the best they can.

If you look at one library, you will see jumps reflecting either real changes in funding or anything libraries do or it may be one of the vagaries of data coming from collection problems. However, if you group libraries—and resident population is only one, albeit the most common, way of grouping libraries—you then can get a sense of what and how libraries in this group are doing. We get a good picture of the health of *all* the

provincial public libraries and with an understanding of the data and as they improve, we can examine individual libraries with increasing confidence.

And now to the analysis!

**Population and Circulation at Ontario Public Libraries, 2006-2015,  
All Reporting EACH Year  
FOPL Data Report, Fourth Series**

We have two major methods for looking at these data in the following pages. One is to analyze aspects of all the 310 libraries reporting usable data in 2015. Data from libraries contracting for services with other libraries are generally included with the data from the libraries they contract with and we exclude them in this analysis. The second method of analysis is through trend analysis and this time, we analyze the 302 libraries reporting each year from 2006 to 2015. By focusing on only those libraries reporting each year, any changes we observe are not a result of a changing set of libraries but, rather, of changes in those libraries.

Now we turn to the Table 1. There are 10 pages included in Table 1 which have sample data for 2006-2015. There is one page for each of our nine bands and the first table has the summary data for the 302 libraries with data for each year of the decade. The Ministry has eight bands by the size of the libraries and we have separated out the First Nations' libraries in a separate band. Note that the right-hand columns have the percentage changes observed in the variables for two intervals: 2006-2015 and from 2011-2015. Beginning on page 29 is a section including charts based on the summary data for all the libraries and observations about them.

Generally, we see increases from 2006-2015 and smaller changes since then if not declines—particularly in what we might think of as “traditional” library services. The charts following these tables confirm earlier our early conclusions that many of these traditional variables have crested while those dealing with newer services will show increases.

We are not quite ready to report on the vast array of new kinds of measured services for two reasons at least. The first is that it takes a few years for new data variables to be reported in sufficient consistency to be useful and happily we are now at the point where new data elements the Ministry started collecting and reporting in 2011 appear mature enough to be useful. We have begun working with them but, given time constraints, will not be ready for this report. The second reason we are not discussing the many new services the province's libraries offer is that the data do not exist. Because the new services are so fast moving, deciding what data to collect—and how--is often not settled before libraries are required to do something else.



We cannot discuss every aspect of the data in this remarkably rich dataset—as fascinating as they are. We will use a few charts after the tables to bring out highlights. However, look at the summary data for the decade in the column just to the left of the 2006 data. These data are in purple. There are some big numbers and they indicate Ontario's public libraries have a great deal of impact on the life of the province's citizens. Two numbers that are indicative of this impact from 2006-2015 are 1) the total number of circulations for the decade: **1,260,217,449** and the Total Operating Expenditures (amount spent in the decade by the libraries): **\$6,196,710,511**. There are other numbers as impressive in these tables. **32,813,763** people attending the **1,747,113** offered programs, for instance! These summaries for the decade are also in the tables for the various bands.

This kind of table is useful for pulling together major aspects of Ontario's libraries by their size in terms of their resident population served and size, as we discussed in the *Primer*, is a common method for grouping libraries. There are others and with the raw data, one can group by other means: region, county, or other common elements.

The ten summary tables making up Table 1 follow. These are summaries of major data by bands. The advantage of this arrangement is that those summary data are combined with like-sized libraries. We follow these tables with summary charts of the major elements for all Ontario's public libraries reporting each year before moving on to Tables 2 and 3.

There are two cases of anomalies in the data as reported by the Ministry and recompiled in the FOPL spreadsheet. These anomalies were changed in making these calculations. The Appendix discussing Sources of these data beginning on page 77 includes a discussion of these two cases with an accompanying Table 8 on page 83.

Table 1: Summary Characteristics of Ontario Public Libraries, 2006-2015, All Libraries Reporting Each Year

		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	% change 2006-2015	% Change 2006-2015
# of libraries reporting		302	302	302	302	302	302	302	302	302	302		
	Totals for the decade												
<b>POPULATION (Resident)</b>													
Total		11,496,757	11,655,750	12,576,556	12,734,259	12,828,436	12,967,589	12,975,029	13,161,282	13,318,800	13,391,763	16	3
Per library		38,069	38,595	41,644	42,166	42,478	42,939	42,964	43,580	44,102	44,344		
<b>Active Cardholders</b>													
Total		4,930,282	4,906,043	4,773,146	4,990,214	5,120,218	4,958,855	4,901,027	4,902,170	4,791,133	4,532,612	-8	-9
Per library		16,325	16,245	15,805	16,524	16,954	16,420	16,229	16,232	15,865	15,009		
% of population with cards		43	42	38	39	40	38	38	37	36	34	-21	-11
<b>CIRCULATION</b>													
Total	1,260,217,449	115,015,155	115,256,552	120,721,695	127,729,303	129,111,541	132,361,168	132,792,256	131,084,838	128,079,565	128,065,376	11	-3
Per library		380,845	381,644	399,741	422,945	427,522	439,738	439,709	434,056	424,105	424,058		
Circulation per capita		8.4	8.3	8.3	8.6	8.5	8.8	8.3	7.8	7.6	7.7	-9	-13
<b>EXPENDITURES in \$</b>													
Total Operating Expenditures	6,196,710,511	534,730,887	559,505,505	583,384,700	611,015,693	619,349,443	643,422,258	638,208,712	655,854,273	668,969,907	682,269,133	28	6
Per library		1,770,632	1,852,667	1,931,737	2,023,231	2,050,826	2,130,537	2,113,274	2,171,703	2,215,132	2,259,169		
Expenditures per capita		54.11	61.59	55.99	61.39	65.30	59.74	59.81	60.75	58.44	61.11	13	2
<b>Total Materials Expenditures</b>													
Total	670,405,618	60,621,243	62,917,784	66,159,758	66,166,265	67,541,329	66,497,962	68,099,996	68,731,027	71,274,228	72,396,026	276	48
<b>General Materials Expenditures</b>													
Total	538,716,902	54,962,945	56,521,858	55,443,734	57,120,665	55,537,775	52,071,461	53,431,040	52,062,703	50,881,047	50,683,674	-8	-3
Per library		181,997	187,158	183,589	189,141	183,900	175,917	183,612	175,888	168,480	167,827		
per capita		7.83	8.01	6.39	9.14	9.69	5.02	4.65	4.57	4.21	4.90	-37	-2
<b>Electronic Materials Expenditures</b>													
Total	131,688,716	5,658,298	6,395,926	10,716,024	9,045,600	12,003,554	14,426,501	14,668,956	16,668,324	20,393,181	21,712,352	284	51
Per library		18,736	21,179	35,484	29,952	39,747	47,770	48,573	55,193	67,527	71,895		
per capita		0.53	0.76	0.92	1.58	1.64	1.70	1.81	2.03	1.97	2.49	371	46
<b>LIBRARY PROGRAMS</b>													
Total number of programs	1,747,113	125,596	137,488	143,856	152,115	160,255	171,771	185,509	202,874	225,287	242,362	93	41
Total Attendance	32,813,763	2,563,928	2,717,774	2,809,578	3,006,748	3,138,328	3,331,652	3,485,594	3,710,965	3,811,406	4,237,790	65	27
Programs per library		416	455	476	504	531	586	629	685	746	803		
Attendance per library		8,490	8,999	9,303	9,956	10,392	11,371	11,856	12,622	12,621	14,032		
Average attendance per capita		0.51	0.56	0.57	0.54	0.69	0.67	0.90	0.72	0.66	0.75	48	12

**Table 1 (Continued) Summary Characteristics of Ontario Public Libraries, 2006-2015, Band 1**  
(Resident population greater than 250,000)

		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015		
# of libraries reporting		8	8	8	8	8	8	8	8	8	8		
	Totals for the decade											% change 2006-2015	% Change 2006-2015
<b>POPULATION (Resident)</b>													
Total		5,677,027	5,691,318	6,289,582	6,368,738	6,430,879	6,499,663	6,549,554	6,588,453	6,670,436	6,737,246	19	4
Per library		709,628	711,415	786,198	796,092	803,860	812,458	818,694	823,557	833,805	842,156		
<b>Active Cardholders</b>													
Total		2,244,574	2,145,696	2,068,445	2,251,072	2,437,300	2,386,388	2,280,402	2,353,057	2,270,309	2,150,005	-4	-10
Per library		280,572	268,212	258,556	281,384	304,663	298,299	285,050	294,132	283,789	268,751		
% of population with cards		40	38	33	35	38	37	35	36	34	32	-19	-13
<b>CIRCULATION</b>													
Total	718,156,869	65,309,021	65,253,769	68,694,948	73,534,313	73,908,451	76,384,127	75,111,351	74,364,008	72,105,337	73,491,544	13	-4
Per library		8,163,628	8,156,721	8,586,869	9,191,789	9,238,556	9,548,016	9,388,919	9,295,501	9,013,167	9,186,443		
Circulation per capita		11.8	12.0	11.0	11.8	11.5	11.7	11.5	11.2	10.6	10.7	-10	-9
<b>EXPENDITURES in \$</b>													
Total Operating Expenditures	3,378,890,216	301,169,293	311,395,063	325,822,311	340,040,182	337,669,304	352,253,049	341,772,566	349,844,296	356,068,866	362,855,286	20	3
Per library		37,646,162	38,924,383	40,727,789	42,505,023	42,208,663	44,031,631	42,721,571	43,730,537	44,508,608	45,356,911		
Expenditures per capita		46.86	48.39	43.73	44.38	44.72	45.75	45.77	46.47	46.81	47.19	1	3
<b>Total Materials Expenditures</b>													
Total	44,281,094	3,968,605	4,116,235	4,269,802	4,358,679	4,486,252	4,358,137	4,672,744	4,514,180	4,762,529	4,773,932	20	10
<b>General Materials Expenditures</b>													
Total		28,529,296	29,561,172	29,079,745	30,063,341	29,206,718	26,937,997	29,547,290	27,650,671	27,348,141	27,551,191	-3	2
Per library		3,566,162	3,695,147	3,634,968	3,757,918	3,650,840	3,367,250	3,693,411	3,456,334	3,418,518	3,443,899		
per capita		4.63	5.06	4.25	4.31	4.09	3.70	4.35	4.06	4.18	3.92	-15	6
<b>Electronic Materials Expenditures</b>													
Total	68,773,192	3,219,544	3,368,708	5,078,668	4,806,089	6,683,301	7,927,100	7,834,659	8,462,768	10,752,087	10,640,268	230	34
Per library		402,443	421,089	634,834	600,761	835,413	990,888	979,332	1,057,846	1,344,011	1,330,034		
per capita		0.74	0.71	0.87	0.82	1.14	1.35	1.26	1.27	1.55	1.56	111	15
<b>LIBRARY PROGRAMS</b>													
Total number of programs	759,700	54,609	61,064	66,814	73,367	71,535	77,910	78,398	86,054	90,624	99,325	82	27
Total Attendance	16,119,779	1,241,456	1,349,084	1,437,647	1,531,526	1,525,699	1,703,602	1,694,987	1,806,287	1,801,489	2,028,002	63	19
Programs per library		6,826	7,633	8,352	9,171	8,942	9,739	9,800	10,757	11,328	12,416		
Attendance per library		155,182	168,636	179,706	191,441	190,712	212,950	211,873	225,786	225,186	253,500		
Average attendance per capita		0.26	0.26	0.23	0.24	0.23	0.26	0.27	0.29	0.28	0.32	21	25

**Table 1 (Continued) Summary Characteristics of Ontario Public Libraries, 2006-2015, Band 2**

(Resident population greater than 100,000 and fewer than 250,001)

# of libraries reporting		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015		
		20	20	20	20	20	20	20	20	20	20		
	Totals for the decade											% change 2006-2015	% Change 2006-2015
<b>POPULATION (Resident)</b>													
Total		2,590,892	2,665,819	2,828,544	2,889,566	2,906,771	2,949,113	2,975,782	3,001,828	3,024,077	3,047,391	18	3
Per library		129,545	133,291	141,427	144,478	145,339	147,456	148,789	150,091	151,204	152,370		
<b>Active Cardholders</b>													
Total		1,289,381	1,336,425	1,279,306	1,256,853	1,185,725	1,123,590	1,172,764	1,137,620	1,123,813	1,046,234	-19	-7
Per library		64,469	66,821	63,965	62,843	59,286	56,180	58,638	56,881	56,191	52,312		
% of population with cards		50	50	45	43	41	38	39	38	37	34	-31	-10
<b>CIRCULATION</b>													
Total	280,093,048	25,110,734	25,618,279	26,627,122	28,043,726	28,458,300	28,810,451	30,332,798	29,561,611	29,244,354	28,285,673	13	-2
Per library		1,255,537	1,280,914	1,331,356	1,402,186	1,422,915	1,440,523	1,516,640	1,478,081	1,462,218	1,414,284		
Circulation per capita		9.8	9.8	9.3	9.6	9.7	9.8	10.2	9.8	9.7	9.3	-5	-4
<b>EXPENDITURES in \$</b>													
Total Operating Expenditures	1,300,042,112	109,652,651	115,111,380	120,285,255	126,231,533	130,663,409	135,133,901	136,746,874	139,662,394	141,229,992	145,324,723	33	8
Per library		5,482,633	5,755,569	6,014,263	6,311,577	6,533,170	6,756,695	6,837,344	6,983,120	7,061,500	7,266,236		
Expenditures per capita		41.82	42.95	41.91	43.17	44.57	45.87	45.94	46.56	46.76	47.78	14	4
<b>Total Materials Expenditures</b>													
Total	7,671,947	691,224	719,334	737,206	737,385	737,360	801,299	768,296	799,975	821,622	858,245	24	7
<b>General Materials Expenditures</b>													
Total	118,815,355	12,263,438	12,292,374	12,215,309	12,223,071	11,895,886	12,266,002	11,832,400	11,721,752	11,239,185	10,865,938	-11	-11
Per library		613,172	614,619	610,765	611,154	594,794	613,300	591,620	586,088	561,959	543,297		
per capita		4.79	4.69	4.33	4.26	4.13	4.27	4.04	3.99	3.79	3.67	-23	-14
<b>Electronic Materials Expenditures</b>													
Total	34,623,586	1,561,048	2,094,300	2,528,818	2,524,631	2,851,322	3,759,977	3,533,519	4,277,745	5,193,263	6,298,963	304	68
Per library		78,052	104,715	126,441	126,232	142,566	187,999	176,676	213,887	259,663	314,948		
per capita		0.54	0.70	0.81	0.80	0.90	1.21	1.16	1.40	1.71	2.05	279	70
<b>LIBRARY PROGRAMS</b>													
Total number of programs	337,519	26,431	28,198	25,446	29,112	33,107	32,364	37,012	38,995	41,665	45,189	71	40
Total Attendance	6,603,750	548,932	565,352	573,188	612,806	589,140	643,110	705,133	772,560	758,640	834,889	52	30
Programs per library		1,322	1,410	1,272	1,456	1,655	1,618	1,851	1,950	2,083	2,259		
Attendance per library		27,447	28,268	28,659	30,640	29,457	32,156	35,257	38,628	37,932	41,744		
Average attendance per capita		0.21	0.21	0.20	0.21	0.21	0.22	0.24	0.26	0.26	0.28	32	29

**Table 1 (Continued) Summary Characteristics of Ontario Public Libraries, 2006-2015, Band 3**

(Resident population greater than 50,000 and fewer than 100,001)

		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015		
# of libraries reporting		21	21	21	21	21	21	21	21	21	21		
	Totals for the decade											% change 2006-2015	% Change 2006-2015
<b>POPULATION (Resident)</b>													
Total		1,320,920	1,353,124	1,435,412	1,441,981	1,459,344	1,463,624	1,467,909	1,496,637	1,536,129	1,519,062	15	4
Per library		62,901	64,434	68,353	68,666	69,493	69,696	69,900	71,268	73,149	72,336		
<b>Active Cardholders</b>													
Total		512,292	518,595	510,819	502,744	549,905	549,308	570,710	527,646	531,924	480,308	-6	-13
Per library		24,395	24,695	24,325	23,940	26,186	26,158	27,177	25,126	25,330	22,872		
% of population with cards		39	38	36	35	38	38	39	35	35	32	-18	-16
<b>CIRCULATION</b>													
Total	108,221,974	9,972,390	9,972,681	10,457,884	10,661,905	11,127,175	11,209,090	11,413,784	11,229,250	11,325,474	10,852,341	9	-3
Per library		474,876	474,890	497,994	507,710	529,865	533,766	543,514	534,726	539,308	516,778		
Circulation per capita		7.4	7.3	7.1	7.1	7.5	7.5	10.7	7.4	7.2	7.1	-5	-6
<b>EXPENDITURES in \$</b>													
Total Operating Expenditures	630,283,714	50,846,156	55,028,052	57,025,113	60,512,274	62,428,898	64,460,468	66,179,023	68,984,995	72,506,564	72,312,171	42	12
Per library		2,421,246	2,620,383	2,715,482	2,881,537	2,972,805	3,069,546	3,151,382	3,285,000	3,452,694	3,443,437		
Expenditures per capita		38.27	40.55	39.89	42.21	42.96	44.17	58.87	46.29	47.08	47.67	25	8
<b>Total Materials Expenditures</b>													
Total	70,366,813	6,041,890	6,628,604	8,378,304	6,883,613	7,209,223	6,663,385	6,388,350	7,442,801	7,453,204	7,277,439	20	9
<b>General Materials Expenditures</b>													
Total	56,440,527	5,647,489	6,180,650	6,082,782	6,144,622	5,975,271	5,556,747	4,908,231	5,514,699	5,303,397	5,126,639	-9	-8
Per library		268,928	294,317	289,656	292,601	284,537	264,607	233,725	262,605	252,543	244,126		
per capita		4.27	4.57	4.33	4.31	4.15	3.83	4.32	3.76	3.48	3.46	-19	-10
<b>Electronic Materials Expenditures</b>													
Total	13,926,286	394,401	447,954	2,295,522	738,991	1,233,952	1,106,638	1,480,119	1,928,102	2,149,807	2,150,800		
Per library		18,781	21,331	109,311	35,190	58,760	52,697	70,482	91,814	102,372	102,419		
per capita		0.29	0.32	2.03	0.52	0.83	0.76	1.14	1.26	1.36	1.40	385	85
<b>LIBRARY PROGRAMS</b>													
Total number of programs	205,412	13,587	14,004	18,404	15,380	17,972	20,088	21,022	24,192	27,601	33,162	144	65
Total Attendance	3,133,216	245,879	254,016	235,098	286,458	297,318	310,885	329,201	351,246	388,653	434,462	77	40
Programs per library		647	667	876	732	856	957	1,001	1,152	1,314	1,579		
Attendance per library		11,709	12,096	11,195	13,641	14,158	14,804	15,676	16,726	18,507	20,689		
Average attendance per capita		0.18	0.18	0.17	0.19	0.20	0.21	0.30	0.23	0.25	0.28	57	36

**Table 1 (Continued) Summary Characteristics of Ontario Public Libraries, 2006-2015, Band 4**

(Resident population greater than 30,000 and fewer than 50,001)

		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015		
# of libraries reporting		18	18	18	18	18	18	18	18	18	18		
	Totals for the decade											% change 2006-2015	% Change 2006-2015
<b>POPULATION (Resident)</b>													
Total		618,352	628,128	673,668	683,754	688,100	695,260	701,292	708,713	722,198	721,207	17	4
Per library		34,353	34,896	37,426	37,986	38,228	38,626	38,961	39,373	40,122	40,067		
<b>Active Cardholders</b>													
Total		258,594	263,879	271,916	319,302	320,459	274,554	277,838	283,397	264,218	271,775	5	-1
Per library		14,366	14,660	15,106	17,739	17,803	15,253	15,435	15,744	14,679	15,099		
% of population with cards		42	42	40	47	47	39	40	40	37	38	-10	-5
<b>CIRCULATION</b>													
Total	50,973,124	4,657,090	4,696,850	4,787,933	4,957,010	5,021,016	5,175,077	5,370,064	5,697,569	5,300,200	5,310,315	14	3
Per library		258,727	260,936	265,996	275,389	278,945	287,504	298,337	316,532	294,456	295,018		
Circulation per capita		7.8	7.8	7.3	7.5	7.6	7.7	8.0	8.5	7.6	7.6	-2	-1
<b>EXPENDITURES in \$</b>													
Total Operating Expenditures	315,673,648	25,021,985	26,311,188	28,622,967	29,098,417	30,823,718	32,745,214	34,124,472	35,998,269	35,905,608	37,021,810	48	13
Per library		1,390,110	1,461,733	1,590,165	1,616,579	1,712,429	1,819,179	1,895,804	1,999,904	1,994,756	2,056,767		
Expenditures per capita		41.52	42.59	43.31	43.58	45.80	48.70	50.97	52.76	51.26	52.79	27	8
<b>Total Materials Expenditures</b>													
Total	29,896,740	2,789,873	2,694,248	2,820,050	3,098,307	2,932,596	2,954,796	3,049,198	3,059,502	3,178,408	3,319,762	19	12
<b>General Materials Expenditures</b>													
Total	24,261,809	2,559,089	2,467,635	2,483,041	2,728,626	2,520,092	2,319,880	2,358,952	2,256,836	2,247,175	2,320,483	-9	0
Per library		142,172	137,091	137,947	151,590	140,005	128,882	131,053	125,380	124,843	128,916		
per capita		4.19	4.01	3.77	4.14	3.77	3.50	3.56	3.29	3.22	3.29	-22	-6
<b>Electronic Materials Expenditures</b>													
Total	5,634,931	230,784	226,613	337,009	369,681	412,504	634,916	690,246	802,666	931,233	999,279		
Per library		12,821	12,590	18,723	20,538	22,917	35,273	38,347	44,593	51,735	55,516		
per capita		0.39	0.37	0.54	0.59	0.62	0.94	1.02	1.16	1.32	1.42	263	51
<b>LIBRARY PROGRAMS</b>													
Total number of programs	131,498	8,560	10,467	10,965	11,204	11,629	12,036	12,039	13,917	21,948	18,733	119	56
Total Attendance	2,205,109	161,010	180,558	184,950	191,653	202,123	207,881	223,953	251,463	290,824	310,694	93	49
Programs per library		476	582	609	622	646	669	669	773	1,219	1,041		
Attendance per library		8,945	10,031	10,275	10,647	11,229	11,549	12,442	13,970	16,157	17,261		
Average attendance per capita		0.28	0.30	0.29	0.29	0.31	0.32	0.34	0.38	0.42	0.45	63	41



**Table 1 (Continued) Summary Characteristics of Ontario Public Libraries, 2006-2015, Band 5**

(Resident population greater than 15,000 and fewer than 30,001)

		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015		
# of libraries reporting		29	29	29	29	29	29	29	29	29	29		
	Totals for the decade											% change 2006-2015	% Change 2006-2015
<b>POPULATION (Resident)</b>													
Total		520,623	536,598	546,424	548,241	551,634	560,613	562,479	568,758	571,751	570,987	10	2
Per library		17,953	18,503	18,842	18,905	19,022	19,331	19,396	19,612	19,716	19,689		
Active Cardholders													
Total		259,574	275,788	282,842	290,859	263,611	265,913	255,239	247,534	248,661	248,178	-4	-7
Per library		8,951	9,510	9,753	10,030	9,090	9,169	8,801	8,536	8,575	8,558		
% of population with cards		50	51	52	53	48	47	45	44	43	43	-13	-8
<b>CIRCULATION</b>													
Total	44,539,449	4,324,431	4,222,044	4,346,579	4,433,055	4,511,741	4,565,031	4,644,720	4,581,204	4,488,155	4,422,489	2	-3
Per library		149,118	145,588	149,882	152,864	155,577	157,415	160,163	157,973	154,764	152,500		
Circulation per capita		8.5	8.0	8.1	8.3	8.4	8.3	8.4	8.2	8.1	7.9	-7	-5
<b>EXPENDITURES in \$</b>													
Total Operating Expenditures	234,207,566	19,332,076	20,256,194	21,228,712	22,658,705	23,326,679	24,130,723	24,608,715	25,438,049	26,423,674	26,804,039	39	11
Per library		666,623	698,489	732,025	781,335	804,368	832,094	848,576	877,174	911,161	924,277		
Expenditures per capita		37.49	37.78	38.44	41.14	42.67	42.89	43.47	44.50	46.34	47.07	26	10
Total Materials Expenditures													
Total	23,159,231	2,292,876	2,288,935	2,405,774	2,378,662	2,300,909	2,218,079	2,199,924	2,276,031	2,341,859	2,456,182	7	11
General Materials Expenditures													
Total	19,714,169	2,170,864	2,154,025	2,161,060	2,159,058	1,975,290	1,845,683	1,793,791	1,872,758	1,773,770	1,807,870	-17	-2
Per library		74,857	74,277	74,519	74,450	68,113	63,644	61,855	64,578	61,164	62,340		
per capita		4.21	4.06	3.96	3.97	3.59	3.26	3.16	3.29	3.11	3.17	-25	-3
Electronic Materials Expenditures													
Total	3,445,062	122,012	134,910	244,714	219,604	325,619	372,396	406,133	403,273	568,089	648,312		
Per library		4,207	4,652	8,438	7,573	11,228	12,841	14,005	13,906	19,589	22,356		
per capita		0.23	0.25	0.42	0.39	0.57	0.66	0.71	0.70	0.96	1.12	397	70
<b>LIBRARY PROGRAMS</b>													
Total number of programs	103,246	7,848	8,138	7,372	8,018	8,243	9,327	11,495	13,027	14,176	15,602	99	67
Total Attendance	1,668,872	144,988	131,741	132,818	147,162	148,912	158,113	185,902	193,413	199,219	226,604	56	43
Programs per library		271	281	254	276	284	322	396	449	489	538		
Attendance per library		5,000	4,543	4,580	5,075	5,135	5,452	6,410	6,669	6,870	7,814		
Average attendance per capita		0.28	0.25	0.24	0.27	0.27	0.28	0.33	0.34	0.35	0.40	45	42

**Table 1 (Continued) Summary Characteristics of Ontario Public Libraries, 2006-2015, Band 6**

(Resident population greater than 2,500 and fewer than 5,001)

		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015		
# of libraries reporting		63	63	63	63	63	63	63	63	63	63		
	Totals for the decade											% change 2006-2015	% Change 2006-2015
<b>POPULATION (Resident)</b>													
Total		523,237	533,051	552,335	549,481	546,476	547,096	548,944	548,196	546,099	545,827	4	0
Per library		8,305	8,461	8,767	8,722	8,674	8,684	8,713	8,702	8,668	8,664		
Active Cardholders													
Total		245,031	242,243	237,189	244,597	240,526	231,220	218,909	224,359	221,898	207,479	-15	-10
Per library		3,889	3,845	3,765	3,882	3,818	3,670	3,475	3,561	3,522	3,293		
% of population with cards		47	45	43	45	44	42	40	41	41	38	-19	-10
<b>CIRCULATION</b>													
Total	40,867,338	3,886,725	3,768,635	4,061,961	4,162,249	4,310,731	4,276,948	4,224,569	4,055,741	4,033,157	4,086,622	5	-4
Per library		61,694	59,820	64,476	66,067	68,424	67,888	67,057	64,377	64,018	64,867		
Circulation per capita		7.6	7.3	7.5	7.7	8.2	7.9	7.6	7.4	7.4	7.3	-4	-8
<b>EXPENDITURES in \$</b>													
Total Operating Expenditures	211,552,128	17,954,794	19,064,119	19,016,020	20,073,781	21,069,767	21,272,548	22,226,411	22,793,398	23,684,500	24,396,790	36	15
Per library		284,997	302,605	301,842	318,631	334,441	337,659	352,800	361,800	375,944	387,251		
Expenditures per capita		34.92	36.39	34.90	36.73	39.75	39.41	40.98	41.99	43.58	45.20	29	15
Total Materials Expenditures													
Total	23,842,091	2,470,642	2,442,702	2,335,613	2,418,877	2,471,792	2,294,469	2,274,494	2,370,227	2,368,646	2,394,629	-3	4
General Materials Expenditures													
Total	21,232,330	2,391,257	2,389,655	2,182,690	2,226,500	2,246,175	1,982,930	1,922,974	1,994,750	1,968,958	1,926,441	-19	-3
Per library		37,956	37,931	34,646	35,341	35,654	31,475	31,016	31,663	31,253	30,578		
per capita		4.66	4.66	4.01	4.11	4.30	3.65	3.55	3.67	3.64	3.59	-23	-2
Electronic Materials Expenditures													
Total	2,609,761	79,385	53,047	152,923	192,377	225,617	311,539	351,520	375,477	399,688	468,188		
Per library		1,260	842	2,427	3,054	3,581	4,945	5,580	5,960	6,344	7,432		
per capita		0.13	0.09	0.26	0.36	0.42	0.58	0.71	0.71	0.73	0.85	568	47
<b>LIBRARY PROGRAMS</b>													
Total number of programs	118,130	8,515	8,639	8,534	8,903	9,892	10,670	13,281	14,442	17,459	17,795	109	67
Total Attendance	1,836,628	127,233	131,822	143,694	142,151	252,326	176,929	194,918	205,178	233,461	228,916	80	29
Programs per library		135	137	135	141	157	169	211	229	277	282		
Attendance per library		2,020	2,092	2,281	2,256	4,005	2,808	3,094	3,257	3,706	3,634		
Average attendance per capita		0.24	0.25	0.27	0.26	0.43	0.33	0.36	0.38	0.43	0.43	77	31

**Table 1 (Continued) Summary Characteristics of Ontario Public Libraries, 2006-2015, Band 7**

(Resident population greater than 2,500 and fewer than 5,001)

		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015		
# of libraries reporting		32	32	32	32	32	32	32	32	32	32		
	Totals for the decade											% change 2006-2015	% Change 2006-2015
<b>POPULATION (Resident)</b>													
Total		113,941	114,008	116,691	118,101	114,345	120,164	118,502	117,143	116,565	116,946	3	-3
Per library		3,561	3,563	3,647	3,691	3,573	3,755	3,703	3,661	3,643	3,655		
Active Cardholders													
Total		54,132	55,517	57,207	55,576	58,075	61,054	58,591	60,820	58,896	57,497	6	-6
Per library		1,692	1,735	1,788	1,737	1,815	1,908	1,831	1,901	1,841	1,797		
% of population with cards		48	49	49	47	51	51	49	52	51	49	3	-3
<b>CIRCULATION</b>													
Total	8,098,303	750,152	753,674	773,733	942,930	777,163	825,657	817,566	795,806	820,904	840,718	12	2
Per library		23,442	23,552	24,179	29,467	24,286	25,802	25,549	24,869	25,653	26,272		
Circulation per capita		6.7	6.7	6.7	8.5	7.0	7.3	7.1	6.9	7.2	7.4	10	1
<b>EXPENDITURES in \$</b>													
Total Operating Expenditures	50,282,466	4,295,919	4,539,026	4,617,437	4,830,417	5,309,302	5,479,931	5,059,089	5,174,242	5,573,707	5,403,396	26	-1
Per library		134,247	141,845	144,295	150,951	165,916	171,248	158,097	161,695	174,178	168,856		
Expenditures per capita		36.66	39.14	39.15	40.79	46.55	47.07	42.87	44.09	47.95	46.42	27	-1
Total Materials Expenditures													
Total	5,523,774	543,738	546,731	545,181	636,215	688,283	515,171	528,102	508,663	505,322	506,368	-7	-2
General Materials Expenditures													
Total	5,025,631	536,716	540,085	532,786	583,578	590,279	469,894	464,918	440,176	434,123	433,076	-19	-8
Per library		16,772	16,878	16,650	18,237	18,446	14,684	14,529	13,756	13,566	13,534		
per capita		4.77	4.81	4.57	4.97	5.28	4.08	4.02	3.80	3.84	3.80	-20	-7
Electronic Materials Expenditures													
Total	498,143	7,022	6,646	12,395	52,637	98,004	45,277	63,184	68,487	71,199	73,292		
Per library		219	208	387	1,645	3,063	1,415	1,975	2,140	2,225	2,290		
per capita		0.06	0.05	0.11	0.45	0.93	0.41	0.55	0.60	0.65	0.65	1,062	58
<b>LIBRARY PROGRAMS</b>													
Total number of programs	28,602	1,904	2,048	1,948	1,756	2,216	2,745	4,026	3,904	3,850	4,205	121	53
Total Attendance	371,217	29,945	30,266	28,433	30,115	33,344	36,780	44,609	42,910	44,223	50,592	69	38
Programs per library		60	64	61	55	69	86	126	122	120	131		
Attendance per library		936	946	889	941	1,042	1,149	1,439	1,341	1,382	1,581		
Average attendance per capita		0.28	0.28	0.25	0.27	0.31	0.33	0.41	0.38	0.40	0.45	58	35

**Table 1 (Continued) Summary Characteristics of Ontario Public Libraries, 2006-2015, Band 8**

(Resident population greater than 2,500 and fewer than 5,001)

		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015		
# of libraries reporting		69	69	69	69	69	69	69	69	69	69		
	Totals for the decade											% change 2006-2015	% Change 2006-2015
<b>POPULATION (Resident)</b>													
Total		86,959	88,898	88,589	87,586	84,582	84,773	85,256	84,447	83,085	82,846	-5	-2
Per library		1,260	1,288	1,284	1,269	1,226	1,229	1,236	1,224	1,204	1,201		
Active Cardholders													
Total		51,491	53,933	48,402	53,260	50,435	52,523	53,641	53,219	54,547	54,300	5	3
Per library		746	782	701	772	731	761	777	771	791	787		
% of population with cards		59	61	55	61	60	62	63	63	66	66	11	6
<b>CIRCULATION</b>													
Total	8,289,292	901,614	876,097	878,866	888,379	904,715	1,008,524	767,661	713,618	682,372	667,446	-26	-34
Per library		13,067	12,697	12,737	12,875	13,112	14,616	11,126	10,342	9,889	9,673		
Circulation per capita		10.5	10.2	10.5	10.8	11.4	12.7	9.5	8.9	8.7	8.5	-19	-33
<b>EXPENDITURES in \$</b>													
Total Operating Expenditures	52,866,032	4,492,063	5,628,975	4,611,469	5,213,108	5,633,103	5,720,393	5,142,292	5,231,533	5,402,527	5,790,569	29	1
Per library		65,102	81,579	66,833	75,552	81,639	82,904	74,526	75,819	78,297	83,921		
Expenditures per capita		74.69	98.17	74.54	85.45	94.14	78.76	65.62	67.18	69.60	77.27	3	-2
Total Materials Expenditures													
Total	7,942,881	671,372	752,799	622,978	875,076	975,609	775,814	774,686	818,521	781,422	894,604	33	15
General Materials Expenditures													
Total	5,948,781	638,768	699,798	568,984	766,686	832,363	522,175	474,824	481,831	465,782	497,570	-22	-5
Per library		9,258	10,142	8,246	11,111	12,063	7,568	6,983	7,192	6,750	7,211		
per capita		12.99	13.79	11.42	17.03	17.32	6.76	6.17	6.27	6.15	6.96	-46	3
Electronic Materials Expenditures													
Total	1,994,100	32,604	53,001	53,994	108,390	143,246	253,639	299,862	336,690	315,640	397,034		
Per library		473	768	783	1,571	2,076	3,676	4,346	4,880	4,574	5,754		
per capita		1.54	2.25	2.28	4.30	4.61	4.73	5.49	6.05	5.53	7.02	356	48
<b>LIBRARY PROGRAMS</b>													
Total number of programs	25,292	1,485	1,830	1,416	1,451	1,853	2,289	3,284	3,515	3,675	4,494	203	96
Total Attendance	403,882	28,493	32,541	30,942	28,237	36,221	38,946	42,890	44,645	47,656	73,311	157	88
Programs per library		22	27	21	21	27	36	51	55	53	65		
Attendance per library		413	472	448	409	525	618	670	698	691	1,062		
Average attendance per capita		0.30	0.38	0.40	0.37	0.44	0.48	0.53	0.56	0.54	0.70	136	48

Table 1 (Continued) Summary Characteristics of Ontario Public Libraries, 2006-2015, First Nations' Libraries

	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	% change 2006-2015	% Change 2006-2015	
# of libraries reporting	42	42	42	42	42	42	42	42	42	42			
<b>POPULATION (Resident)</b>													
Total	44,806	44,806	45,311	46,811	46,305	47,283	45,992	47,107	48,460	50,251	12	6	
Per library	1,067	1,067	1,079	1,115	1,103	1,126	1,095	1,122	1,154	1,196			
<b>Active Cardholders</b>													
Total	15,213	13,967	17,020	15,951	14,182	14,305	12,933	14,518	16,867	16,836	11	18	
Per library	362	333	405	380	338	341	308	346	402	401			
% of population with cards	34	31	38	34	31	30	28	31	35	34	-1	11	
<b>CIRCULATION</b>													
Total	978,052	102,998	94,523	92,669	105,736	92,249	106,263	109,743	86,031	79,612	108,228	5	2
Per library	2,452	2,251	2,206	2,518	2,196	2,196	2,592	2,613	2,048	1,896	2,577		
Circulation per capita	7.0	7.3	7.0	6.7	5.4	5.3	5.3	5.1	4.7	5.7	-18	8	
<b>EXPENDITURES in \$</b>													
Total Operating Expenditures	22,912,629	1,965,950	2,171,508	2,155,416	2,357,276	2,425,263	2,226,031	2,349,270	2,727,097	2,174,469	2,360,349	20	6
Per library	46,808	51,703	51,319	56,126	57,744	53,001	55,935	64,931	51,773	56,199			
Expenditures per capita	94.38	102.91	104.62	117.65	119.49	102.05	116.21	122.39	95.24	98.62	4	-3	
<b>Total Materials Expenditures</b>													
Total	1,986,393	237,526	247,211	149,318	258,383	325,690	185,172	137,374	142,346	112,691	190,682	-20	3
<b>General Materials Expenditures</b>													
Total	1,802,738	226,028	236,464	137,337	225,183	295,701	170,153	127,660	129,230	100,516	154,466	-32	-9
Per library	5,382	5,630	3,270	5,362	7,041	4,726	3,868	3,401	2,393	3,678			
per capita	14.36	14.28	8.33	18.30	21.88	8.53	6.74	6.11	3.87	7.71	-46	-10	
<b>Electronic Materials Expenditures</b>													
Total	183,655	11,498	10,747	11,981	33,200	29,989	15,019	9,714	13,116	12,175	36,216	215	141
Per library	274	256	285	790	714	358	231	312	290	862			
per capita	0.17	0.62	0.35	2.10	1.17	1.23	0.24	0.62	0.49	1.25	615	2	
<b>LIBRARY PROGRAMS</b>													
Total number of programs	37,714	2,657	3,100	2,957	2,924	3,808	4,342	4,952	4,828	4,289	3,857	45	-11
Total Attendance	471,310	35,992	42,394	42,808	36,640	53,245	55,406	64,001	43,263	47,241	50,320	40	-9
Programs per library	63	74	70	70	91	111	124	118	102	92			
Attendance per library	857	1,009	1,019	872	1,268	1,421	1,600	1,109	1,125	1,198			
Average attendance per capita	2.02	2.29	2.31	2.16	2.80	2.82	4.18	2.87	2.15	2.44	21	-14	

## Charts based on Table 1 Summary Data

This section discusses major results we see in the data summarized in Table 1. The many pages and lines in Table 1 are based on simple calculations on the raw data.

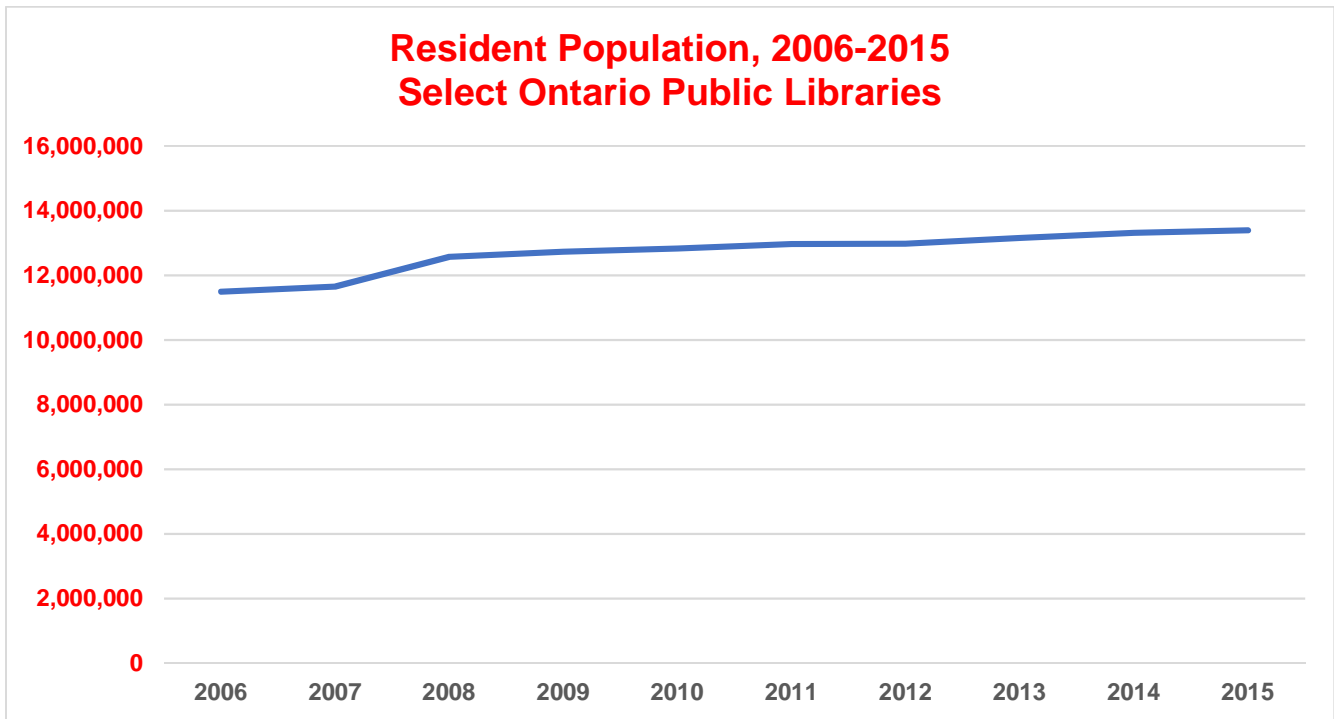
There are many for whom tables are relatively easy to understand but others prefer graphical representations to see the flow of trends. We now turn to the charts of the data and briefly integrate our discussion of these charts with those numerical summaries. The charts are based on the first page of Table 1 which has the summary data for all libraries and for all years.

While charts like these can be an aid to our understanding what is going on, they are also prone to misuse and can be used to exaggerate trends. For example, by compressing one axis or another, a trend can be accentuated and frightening or de-emphasized...and nothing to be concerned greatly about. But each method of representing data has its strengths and its weaknesses. It is a good idea to keep an eye on both the charts and the tables as one weighs the numerical evidence presented here

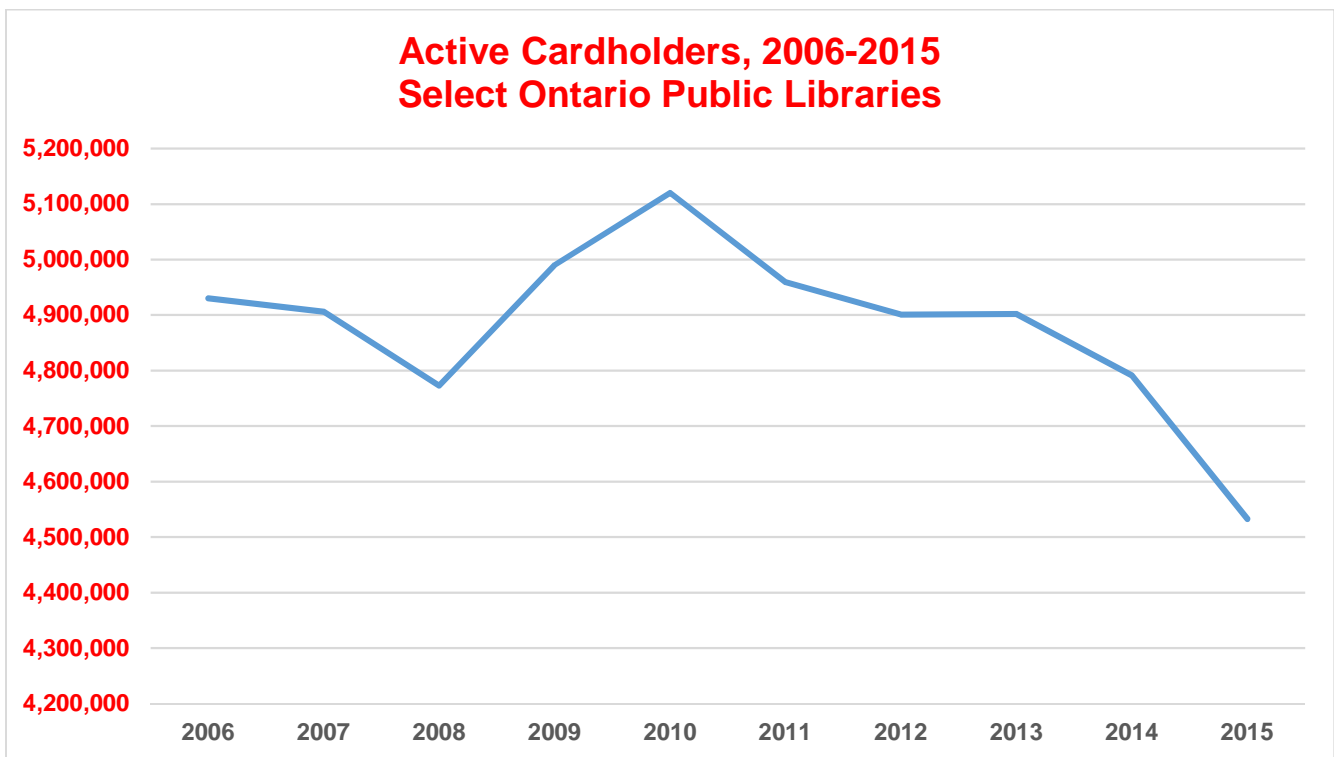
Per capita in these tables are averages of the per capita figures from the individual libraries, not the average derived from the aggregate data. For instance, in 2015, the circulations per capita for all 302 libraries in Table 1 is 7.7 but dividing the aggregate (128 million circs by 13 million population) gives a result of 9.6. Each calculation is perfectly sound but our emphasis here is on the individual libraries so we have used summary statistics generated from the libraries separately.

Now to our charts beginning on the next page.



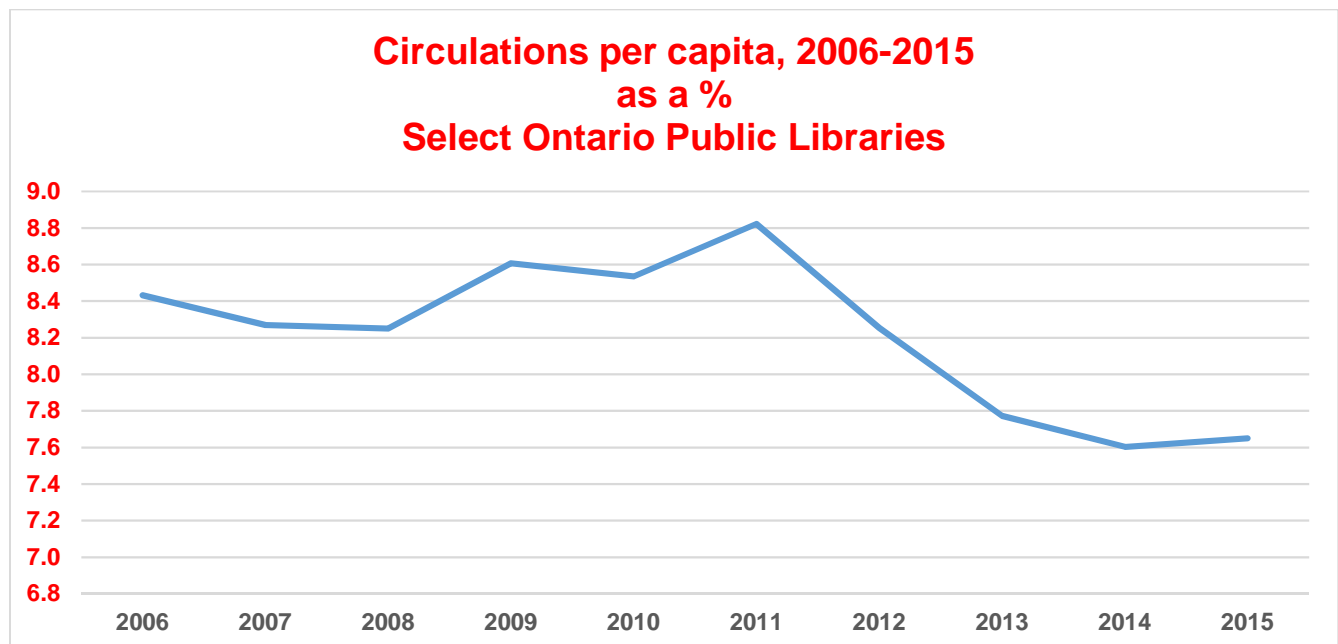
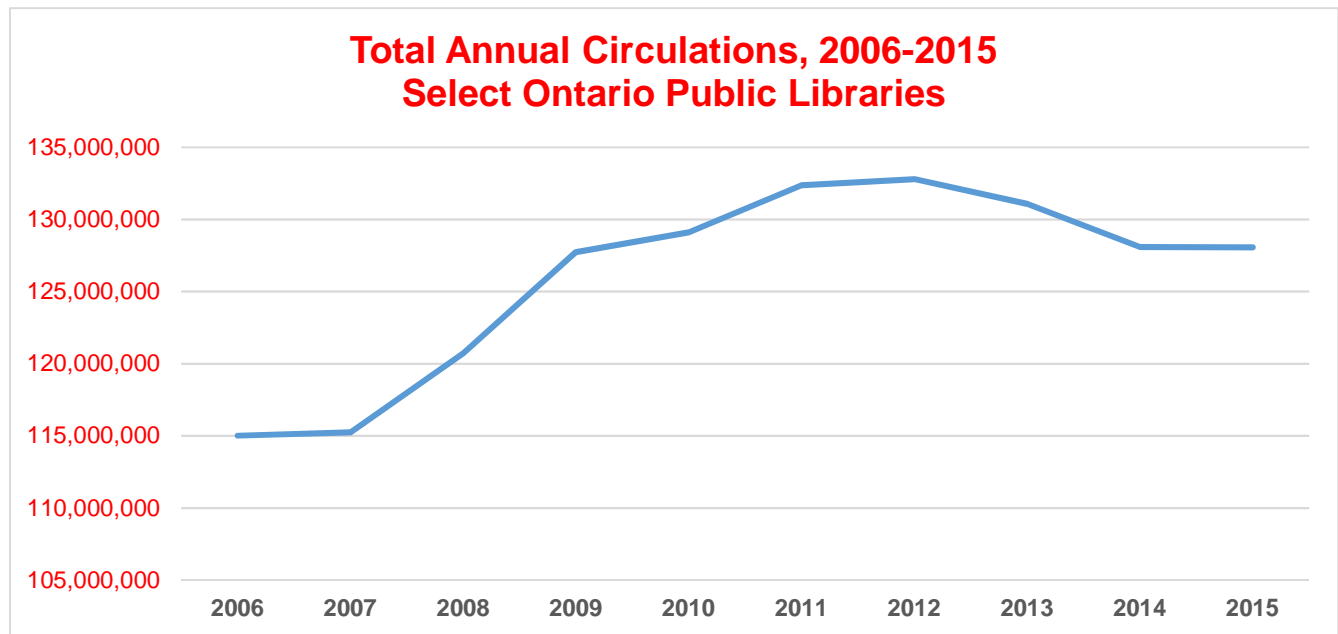


The number of active cardholders has declined over the period:



Note that in the data Table, the percentage of the population holding cards went down from 43% in 2006 to 34% in 2015. Suppose that in 2015, 43% of the population served by Ontario's libraries had cards? Rather than the 4.5 million who did hold cards, 5.8 million (1.3 million more) would have them in that alternate universe.

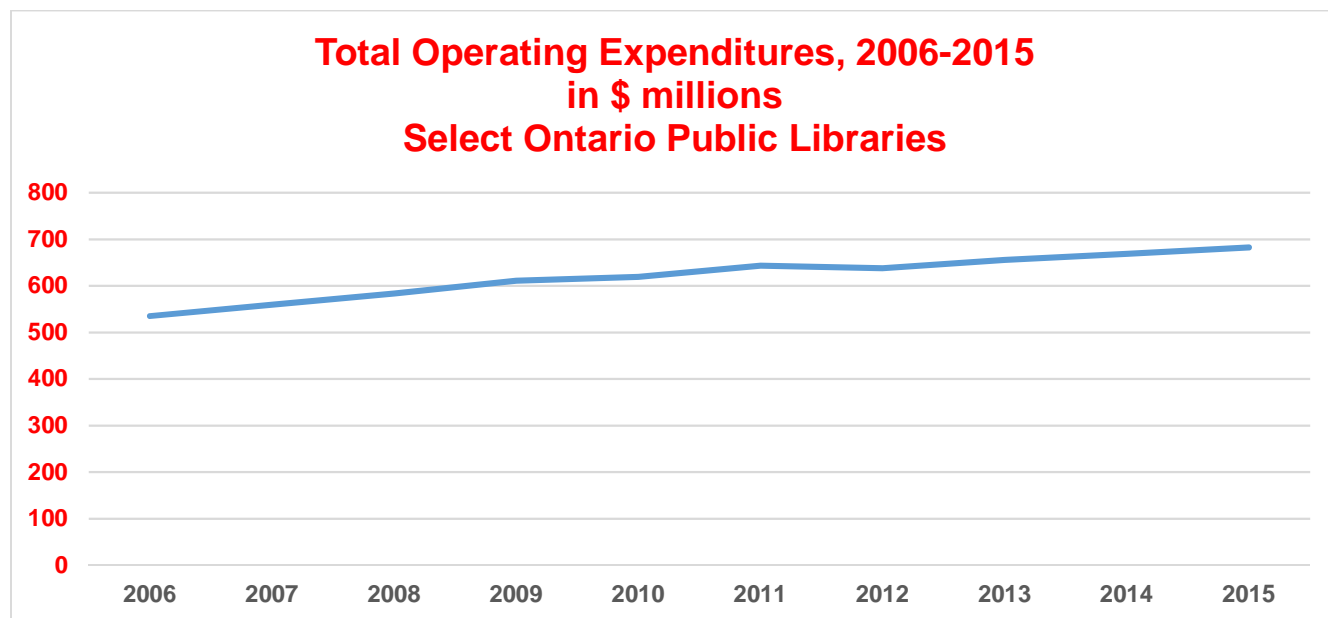
Circulations fell for the period, as did circulations per capita:



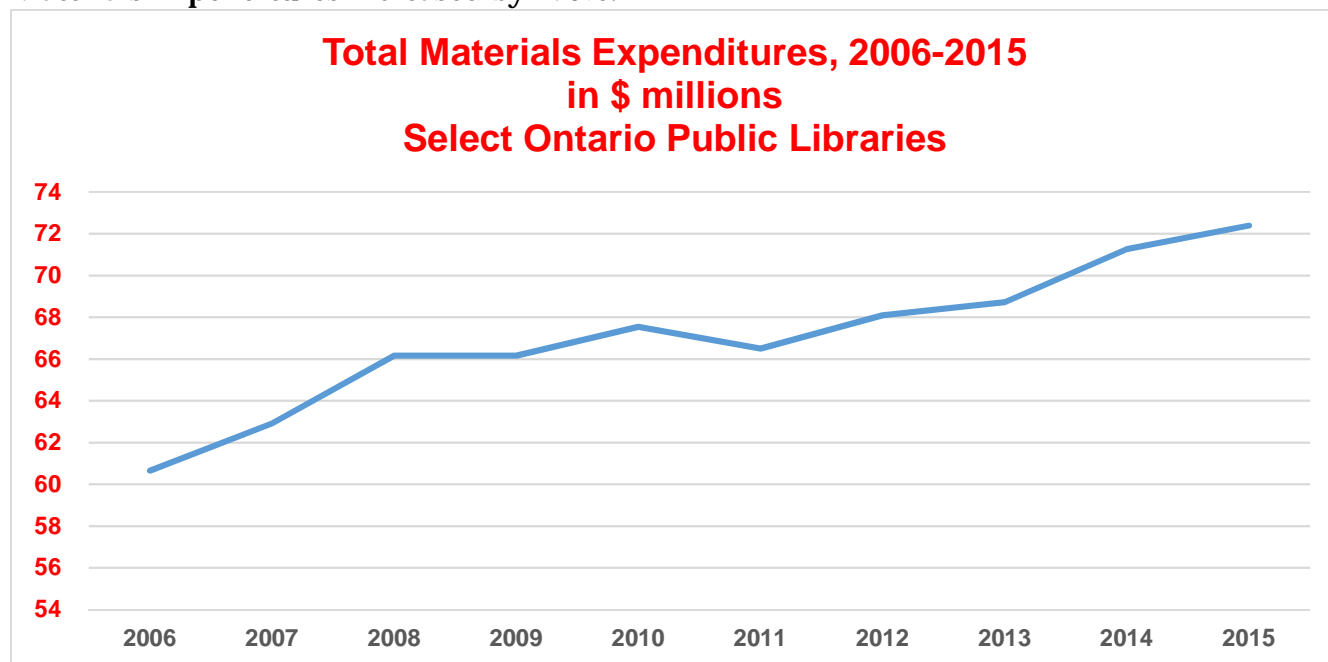
The picture we have seen, so far, shows that these traditional functions of libraries are steady or declining although the libraries are still heavily used in these ways.

### What about resources?

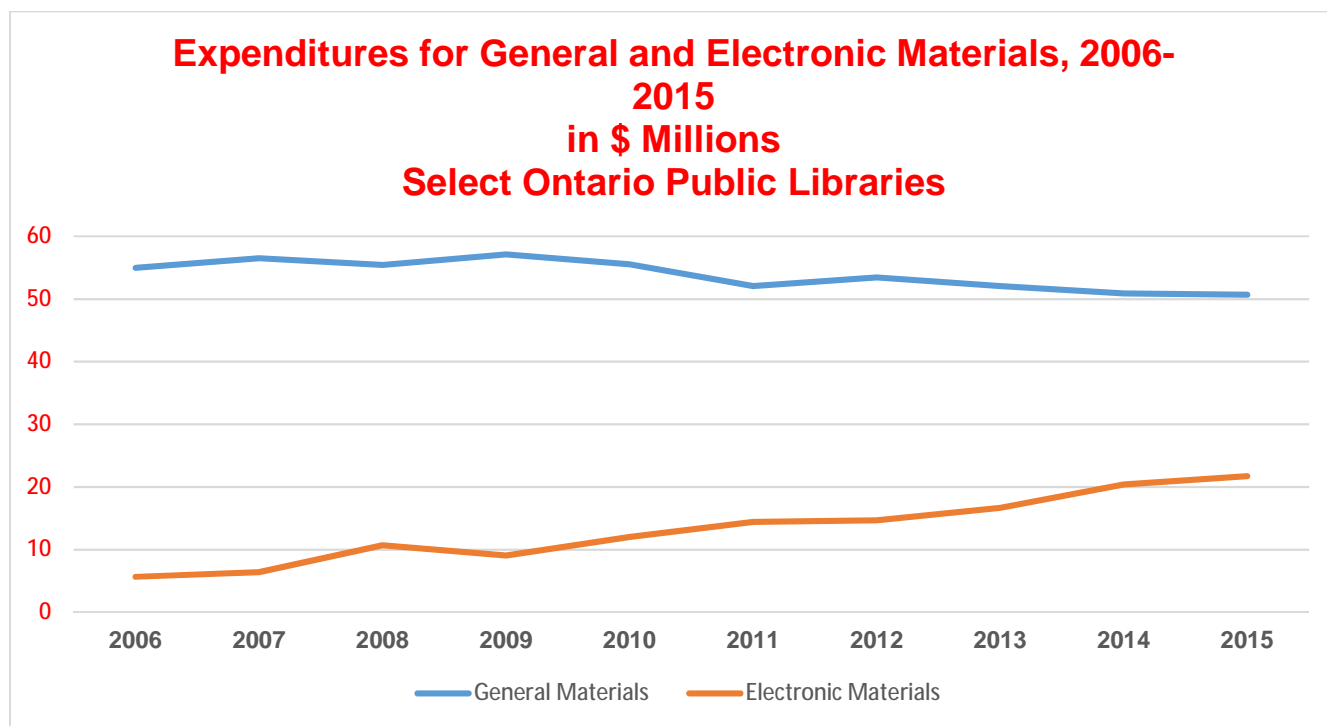
Total expenditures increased 27% (while population increased by 16%) :



Materials Expenditures increased by 27%:



Note how the materials budget was allocated between general materials and electronic materials. It will come as no surprise that electronic materials expenditures have increased:

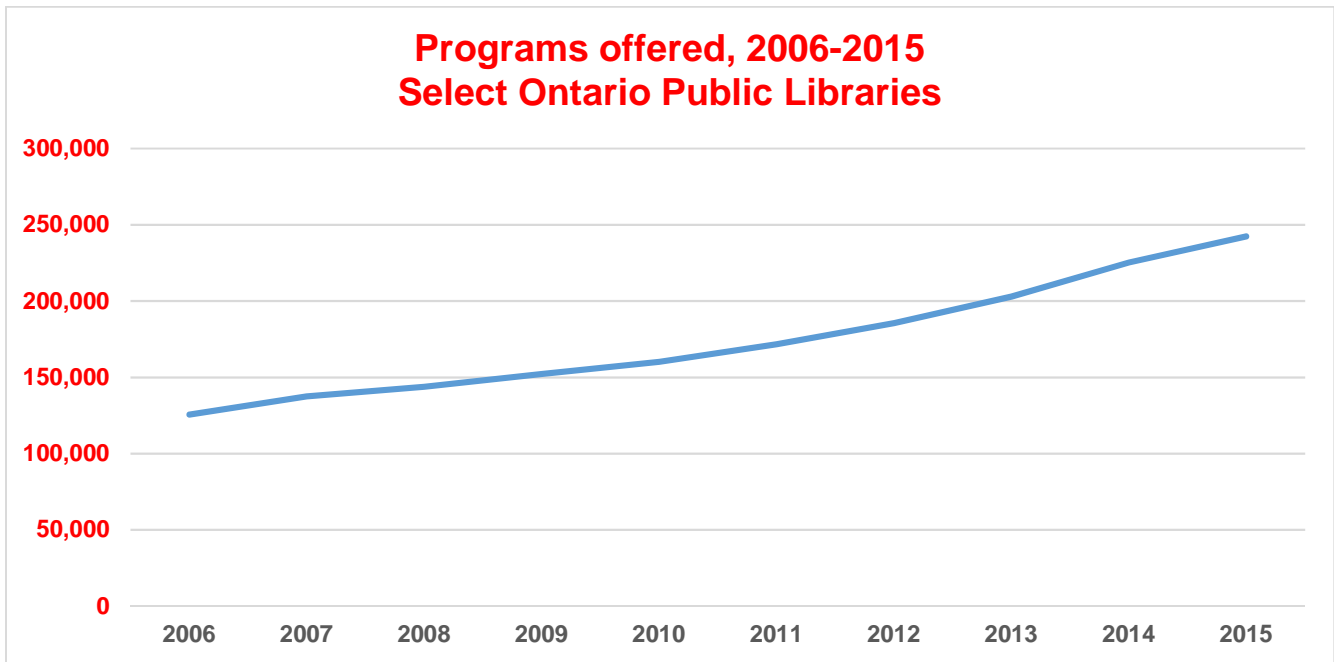


Expenditures for electronic materials went from 9% of the materials budget in 2006 to 30% in 2016

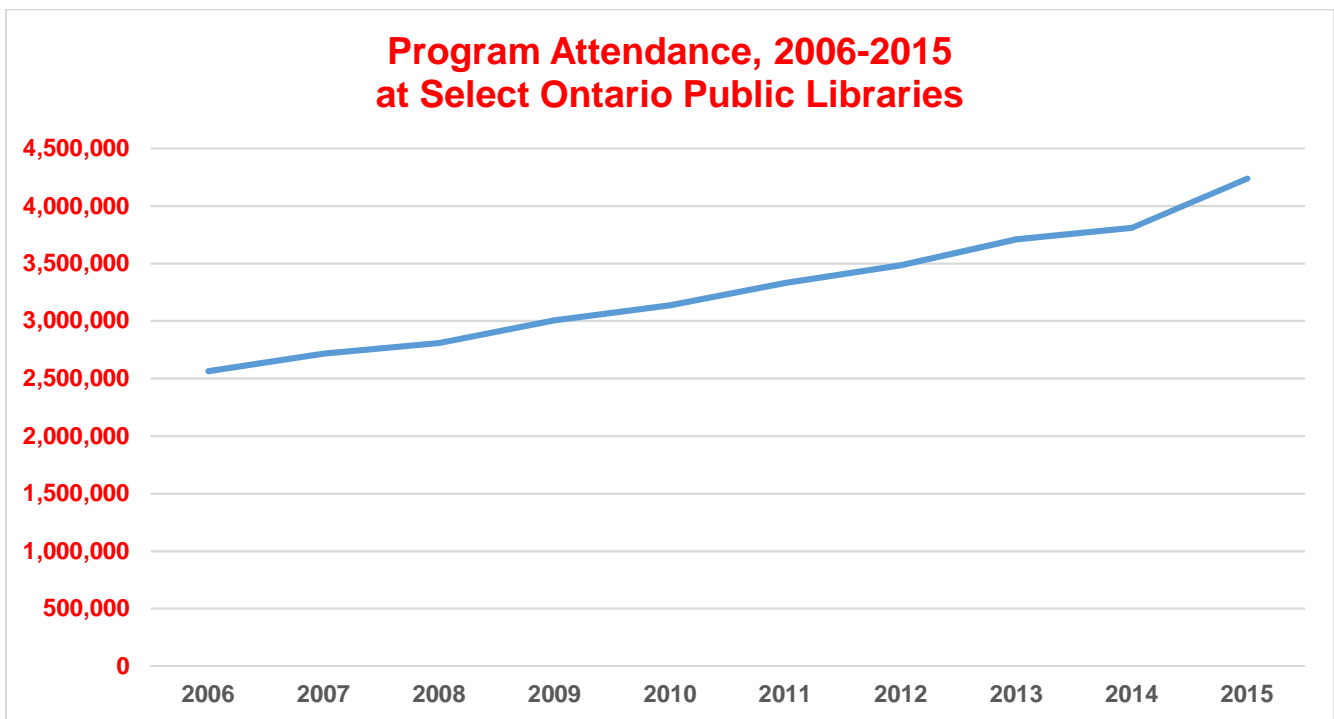
### Programs

Another change we have highlighted in earlier reports is in Programs. That is, programs offered by the libraries and the programs' attendance. Mentioned above were two summary numbers: 1.7 million programs offered and 32.8 million attendees. These charts are on the following pages.

Programs offered increased over 90% from 125,596 to 242,362.



And attendance at those programs increased from 2.6 million in 2006 to 4.2 million (or 65%) over the period.



## Key Ratios At Ontario's Public Libraries, 2015

Table 2 is a collection of ratios for each library reporting in 2015.

Most of these ratios are dealt with in the pages that follow in varying kinds of detail but in most, the data from individual libraries are not available. What follows is a discussion of the variables in this printed spreadsheet and in the digital copy for FOPL members. The printed spreadsheet begins on page 39.

The spreadsheet that these pages came from is available to members. Be warned: it is good practice to always have a saved and untouched copy of a spreadsheet you are working on in a safe place. Spreadsheets can do many things well and Excel and LibreOffice Calc are powerful programs but must one respect their power. One can make a mess in a hurry if one uses them with insufficient care.

The Library Number is the Ministry's internal number key for each library. In earlier years, a similar key number: the Library ID, was used. The two sets of numbers are easily converted. Part of the strength of this series is the foundational infrastructure where there is a consistency of what has been collected and from which libraries. Libraries are dynamic and things change. Libraries open and close and contracting municipalities change contracts but the Ministry has maintained this key structure over the years. It is almost impossible to be too complimentary to the effort that went into maintaining this critical key variable over the years.

Eight of the library names are in boldface to indicate these libraries are in the 2015 Ministry dataset but are not a part of the 302 libraries for which we have data for the years 2006-2015.

The Band is a variable that is used often here and it is the Ministry's means of segmenting libraries by size. If you have read the *Primer*, you will understand the long history of public library data series segmenting libraries by their size and usually in terms of the population served. Academic libraries did something similar using volumes held. Both methods are common. In the FOPL data, we have added a Band which includes only the First Nations' libraries. Our analysis in these pages often uses Bands to examine how libraries of different sizes are responding to the changing information environment.

Then we have two columns to identify the libraries: Library Name and their City.

The rest of the columns in this wide spreadsheet are of variables which are ratios constructed (mostly) from a variable divided by the resident population or in a few cases by the number of active cardholders. We have analyzed both methods of calculating per capita measures to compare libraries.

One of the means of analysis we have used is “Rank Order Tables,” which are ranks of libraries by these ratios. If one has a taste for the history of library data, one can find precedents for ordering libraries by published data going back to the early 19<sup>th</sup> century. Or before the birth of Christ with the apparent competition between the libraries of Alexandria and Pergamom using dueling statistics. More recently, with some aspects of data reporting more systematic, we can begin to make better comparisons. “Apples to apples,” as we are inclined to say. With data, it is never “apples to apples.” If we are lucky, we can get close: Stayman to Gala, perhaps.

As has been said: “What is measured improves,” and in library data, that certainly is true. You will find echoed through these looks at these data the observation that data get better as people examine them. “Oh, I thought when they asked for 'X' they meant something different from what you thought they meant.” It takes time to work these things out. Figure about three years with annual data. The Ontario data have not been through this process and you will see in this spreadsheet the occasional very odd value. Not most; but some.

The reader may note odd values here and there. Among the common characteristics of library data are episodic unusually large or small values. Sometimes these are correct because of the vagaries of funding or gifts. Sometimes they are mistakes. That is one reason you will find us—like most such reports—grouping like libraries.

Anomalies like these are a common fact in library data and often in the smaller libraries where the staff has enough to do to keep the doors open and provide service. Maybe reporting data is not the top of their list when Ms. Jones shows up with her class for a tour? Maybe that volunteer keeping the doors open has no training? Or the person who did those numbers the last three years is no longer here and the new person did the best he or she could. Analysts come along a good bit later and we have to respect the folks who keep the doors open and do the best they can. If you look at the spreadsheet, you will note that missing items most often come from smaller libraries. There is a term of art: “Responder Burden.” This burden occurs when long forms requiring information are too time consuming for the time available to fill them out. Collecting data always involves trade-offs. Data are a good servant but a terrible master.

On to our ratios! And we do have many here.

In Ontario, we have various forms of “contracting” for library services where one political agency pays another for library service for its citizens. These data are hard to capture—particularly over time when the contracts change. In Ontario, the practice has been to ignore these contracted populations for such calculations and, the numbers of such libraries are

usually small. But one does need to keep them in mind as a library which has such contracts will have annual circulations without the attendant resident population from its contracted users. How this fact affects ratios involve population or active cardholders is not clear but likely overstates the ratios for libraries contracting with other municipalities for library service.

The next two columns involve “Active Cardholders,” that is, members of the Resident Population which hold library cards. We first provide the calculation of Annual Circulations divided by the number of these Cardholders (Circs per cardholder.) The second column shows the percentage these Cardholders are of the Resident Population (Cardholders as a % of Population.) Table 1 records that that this percent as well as the number of cardholders has declined over the decade for all 302 libraries. We also saw on page 30 a chart of the declining number of cardholders.

Given that there are fewer cardholders than resident population, we can expect that circulations for each cardholder will be greater than that for the population and, in fact, it is arguably better to use circulations per cardholder as a measure of a circulations per capita type number.

We then move to ratios of Expenditures for several categories: Total Operating Expenditures, General Materials Expenditures, and Electronic Materials Expenditures. These are dealt with in several ways starting on page 35 and per capitas beginning on page 55.

In the case of Total Operating Expenditures, we have the per resident population ratio (Total Operating Expenditures per capita) and the per cardholder ratio (Total Operating Expenditures per cardholder.) Give that even people who do not have a card to use a library can 1) in some cases use library resources and 2) even people who do not actively “use” a library, nonetheless benefit from a library's existence, there is a bit of uncertainty, about how to assign those parts of Expenditures to assign to either group? By giving both, we hope to bracket the true—but unknown number—between the ranges given for Total Operating Expenditures for the two per capita estimates.

We then go to General Materials Expenditures (General Materials Expenditures per capita,) along with Electronic Materials Expenditures (Electronic Materials Expenditures per capita) which results lead us to an important conclusion of this look at these data: results seen in traditional library measures are, generally, flat or declining. On the other hand, measures of uses of electronic (or “digital” materials are increasing. Table 1 presents these two variables and their sum: Expenditures for collections. The chart on page 33 presents the dollar amounts



for General and Electronic Expenditures. Electronic Materials Expenditures are growing but still under half of the amounts going to General Materials.

Not surprisingly, these data and subsequent discussions in this report confirm electronic resources are undergoing substantial growth at the Ontario public libraries.

Another stark result is shown in Programs Offered and Program Attendance at these libraries Table 1 has aggregate data and there are two related charts on page 34. Ontario's public libraries have a burgeoning list of programs, affecting more and more of the province's citizens.

Table 2: Key Ratios for Ontario Public Libraries, 2015

Library Number	Band	Library Name	City	Population (Resident)	Active Cardholders	Circs per capita	Circs per cardholder	Cardholders as a % of Population	Total Operating	Total Operating	General Materials	Electronic Materials	Program Attendance	Program Attendance	Programs Offered	Programs Offered	
									Expenditures per capita \$	Expenditures per cardholder \$	Expenditures per capita \$	Expenditures per cardholder \$	per capita	per cardholder	per capita	per cardholder	
1	L0005	8	Addington Highlands Twp	Flinton	1,755	909	6.0	11.5	51.8	53.23	102.77	6.91	0.43	0.13	0.25	0.02	0.03
2	L0002	7	Admaston/Bromley Twp	Douglas	2,622	418	3.9	24.5	15.9	13.47	84.51	1.65	0.58	0.13	0.82	0.01	0.05
3	L0032	2	Ajax	Ajax	121,900	35,702	6.8	23.1	29.3	36.92	126.06	3.33	1.44	0.25	0.85	0.01	0.05
4	L0390	FN	Alderville FN	Alderville	311	256	3.2	3.8	82.3	88.82	107.90	5.61	1.69	1.28	1.56	0.14	0.18
5	L0004	6	Alfred & Plantagenet Twp	Lefaivre	8,022	1,595	4.2	21.0	19.9	45.27	227.69	0.65	4.2	0.09	0.47	0.01	0.03
6	L0391	FN	Algonquins of Pikwakanagan FN	Golden Lake	464	79	1.7	9.9	17.0	66.38	389.86	13.95	0.64	0.50	2.96	0.14	0.80
7	L0487	6	Alnwick/Haldimand Twp	Grafton	6,279	1,646	4.3	16.5	26.2	30.55	116.56	4.28	0.62	0.08	0.32	0.01	0.03
8	L0013	8	Armstrong Twp	Earlton	1,216	269	4.5	20.3	22.1	46.34	209.49	5.00	1.17	0.08	0.35	0.01	0.03
9	L0014	6	Arnprior	Arnprior	9,153	4,810	12.7	24.1	52.6	54.56	103.81	4.58	0.45	0.88	1.68	0.05	0.10
10	L0016	7	Asphodel-Norwood	Norwood	4,041	763	2.1	11.4	18.9	30.98	164.05	0.44	0.09	0.31	1.65	0.04	0.20
11	L0017	8	Assiginack Twp	Manitoulin Island	960	813	13.7	16.2	84.7	50.28	59.37	1.86	1.20	0.58	0.68	0.01	0.01
12	L0018	7	Athens Twp	Athens	3,272	531	1.9	11.9	16.2	15.31	94.32	1.92	0.36	0.17	1.04	0.02	0.12
13	L0424	FN	Atikameksheng Anishnawbek Band No. 6 FN	Whitefish First Nation	377	400	0.8	0.8	106.1	110.13	103.80	2.65	0.00	0.29	0.27	0.04	0.04
14	L0011	7	Atikokan	Atikokan	2,596	1,879	9.9	13.7	72.4	87.47	120.85	11.50	1.83	0.82	1.14	0.07	0.10
15	L0010	6	Augusta Twp	Brockville	7,430	2,396	2.7	8.3	32.2	14.96	46.40	2.29	0.40	0.10	0.30	0.00	0.01
16	L1035	FN	Aundeck-Omni-Kaning FN	Little Current	365	64	0.0	0.3	17.5	14.34	81.77	0.00	1.87	0.85	4.86	0.04	0.25
17	L0033	3	Aurora	Aurora	56,200	27,595	11.7	23.8	49.1	66.17	134.76	5.41	2.19	0.26	0.53	0.01	0.03
18	L0062	7	Bancroft Town	Bancroft	3,880	3,305	5.4	6.4	85.2	38.66	45.38	2.97	0.13	0.14	0.16	0.02	0.02
19	L0043	2	Barrie	Barrie	143,634	38,021	11.4	43.0	26.5	50.03	189.00	3.24	2.40	0.14	0.54	0.01	0.03
20	L0393	FN	Beausoleil First Nation Public Library	Christian Island	629	306	10.2	20.9	48.6	64.90	133.40	0.00	0.00	0.24	0.50	0.37	0.75
21	L0081	4	Belleville	Belleville	49,454	24,211	7.0	14.4	49.0	44.16	90.20	2.62	1.40	0.32	0.66	0.02	0.03
22	L0394	FN	Big Grassy FN	Morson	250	228	4.0	4.3	91.2	124.80	136.84	0.00	0.00	0.68	0.75	0.03	0.04
23	L0082	8	Billings Twp	Kagawong	507	422	8.4	10.1	83.2	67.01	80.51	15.94	1.09	0.02	0.03	0.00	0.00
24	L0462	FN	Bkejwanong FN	Wallaceburg	2,326	656	0.3	1.1	28.2	40.40	143.24	2.45	0.18	0.89	3.17	0.03	0.11
25	L0083	8	Black River-Matheson Twp	Matheson	2,332	731	4.0	12.8	31.3	45.49	145.13	3.60	1.04	0.14	0.46	0.02	0.05
26	L0429	7	Blind River	Blind River	3,575	1,783	4.2	8.4	49.9	36.12	72.42	0.72	0.67	0.26	0.53	0.02	0.05
27	L0084	8	Bonfield	Bonfield	2,016	353	5.0	28.7	17.5	45.41	259.35	7.13	0.00	0.27	1.52	0.00	0.03
28	L0080	6	Bonnechere Union	Eganville	5,544	1,671	4.2	14.0	30.1	60.96	202.24	0.96	0.64	0.42	1.38	0.06	0.21
29	L0070	6	Bracebridge	Bracebridge	14,941	8,179	9.3	16.9	54.7	61.23	111.85	4.02	2.07	0.41	0.76	0.03	0.06
30	L0086	4	Bradford West Gwillimbury Town	Bradford	34,266	20,766	7.5	12.3	60.6	62.16	102.56	3.86	1.10	0.72	1.19	0.04	0.07
31	L0041	1	Brampton	Brampton	580,600	151,720	8.7	33.4	26.1	28.02	107.24	1.42	1.43	0.14	0.53	0.01	0.02
32	L0040	4	Brant County	Paris	31,030	12,064	8.5	21.9	38.9	58.21	149.71	5.49	2.01	0.71	1.83	0.07	0.17
33	L0039	3	Brantford	Brantford	97,862	10,783	6.7	60.6	11.0	48.79	442.80	4.35	1.20	0.26	2.37	0.01	0.10
34	L0466	6	Brighton Public Library Board	Brighton	10,928	6,225	10.6	18.6	57.0	38.98	68.42	3.14	1.44	0.27	0.48	0.01	0.02
35	L0322	8	Britt Area	Britt	940	292	20.5	66.1	31.1	6.20	19.94	5.44	0.14	0.03	0.09	0.00	0.00
36	L0038	6	Brock Twp	Beaverton	11,700	3,056	3.7	14.3	26.1	49.94	191.21	4.68	2.09	0.24	0.92	0.05	0.20
37	L0088	5	Brockville	Brockville	21,870	7,939	7.3	20.2	36.3	40.68	112.07	2.67	1.18	0.43	1.17	0.03	0.09
38	L0089	3	Bruce County	Town of Saugeen Shores	61,119	25,098	8.0	19.5	41.1	57.94	141.10	5.67	0.65	0.37	0.91	0.05	0.12
39	L0044	8	Bruce Mines & Plummer Additional Union	Bruce Mines	1,216	1,329	8.5	7.7	109.3	84.37	77.20	8.13	0.90	2.20	2.01	0.24	0.22
40	L0090	7	Burk's Falls, Armour & Ryerson Union	Burk's Falls	2,973	1,667	6.9	12.4	56.1	47.54	84.79	3.13	1.06	0.33	0.59	0.01	0.02
41	L0037	2	Burlington	Burlington	175,103	65,058	11.3	30.3	37.2	61.81	166.36	4.71	2.12	0.35	0.96	0.01	0.04
42	L0049	3	Caledon	Caledon East	72,040	15,670	5.0	23.1	21.8	44.99	206.85	3.89	2.22	0.26	1.21	0.02	0.10
43	L1036	7	Callander	Callander	3,864	1,231	7.4	23.2	31.9	55.45	174.05	1.83	0.68	1.05	3.30	0.29	0.92
44	L0104	2	Cambridge	Cambridge	135,000	44,059	8.0	24.6	32.6	45.14	138.31	2.84	1.40	0.41	1.26	0.02	0.05
45	L0048	6	Carleton Place	Carleton Place	10,320	6,221	12.7	21.1	60.3	38.25	63.44	4.08	0.80	0.57	0.95	0.04	0.06
46	L0106	8	Carlow/Mayo Public Library	Bancroft	895	529	1.5	2.5	59.1	23.67	40.05	3.20	1.31	0.13	0.23	0.07	0.12
47	L0430	8	Cartier	Cartier	300	60	6.0	30.0	20.0	8.33	41.67	0.00	8.33	0.08	0.40	0.01	0.05
48	L0107	7	Casselman	Casselman	3,129	996	3.3	10.5	31.8	40.21	126.31	2.29	0.00	0.12	0.38	0.00	0.01
49	L0045	6	Cavan Monaghan Public Library Board, Township of	Millbrook	8,601	3,881	5.5	12.3	45.1	32.78	72.65	2.73	0.92	0.36	0.79	0.02	0.04
50	L0109	8	Central Manitoulin Twp	Mindemoya	1,958	2,623	8.1	6.0	134.0	51.36	38.34	4.84	0.36	0.41	0.31	0.00	0.00
				Average of ALL libraries' values==>	43,253	14,639	7.6	18.6	47.5	62.28	167.57	4.82	2.44	0.74	1.76	0.06	0.13
				Median of ALL libraries' values==>	5,338	2,029	6.8	16.5	38.5	48.22	126.97	3.44	0.88	0.32	0.86	0.02	0.06

Table 2: Key Ratios for Ontario Public Libraries, 2015 (continued)

Library Number	Band	Library Name	City	Population (Resident)	Active Cardholders	Circs per capita	Circs per cardholder	Cardholders as a % of Population	Total Operating	Total Operating	General Materials	Electronic Materials	Program Attendance	Program Attendance	Programs Offered	Programs Offered	
									Expenditures per capita \$	Expenditures per cardholder \$	Expenditures per capita \$	Expenditures per cardholder \$	per capita	per cardholder	per capita	per cardholder	
51	L0110	7	Centre Hastings	Madoc	4,543	1,680	4.2	11.4	37.0	30.07	81.33	1.55	0.13	0.21	0.57	0.00	0.01
52	L0108	6	Champlain Twp	Vankleek Hill	7,610	1,399	3.9	21.2	18.4	25.77	140.15	6.03	0.21	0.29	1.56	0.00	0.01
53	L0112	8	Chapleau Twp	Chapleau	2,116	532	1.8	7.3	25.1	58.79	233.84	4.86	1.45	0.04	0.17	0.00	0.02
54	L0121	2	Chatham-Kent	Chatham	104,075	28,181	7.8	28.9	27.1	41.02	151.50	3.72	2.56	0.16	0.59	0.01	0.04
55	L0396	FN	Chippewas of Georgina Island FN	Sutton West	203	205	26.7	26.5	101.0	376.42	372.75	14.78	0.00	29.04	28.76	2.12	2.10
56	L0397	FN	Chippewas of Kettle & Stony Point FN	Kettle and Stony Point Firs	1,328	383	0.2	0.6	28.8	31.13	107.95	2.27	0.75	0.41	1.44	0.02	0.06
57	L0411	FN	Chippewas of Nawash FN	Warton	710	130	2.8	15.4	18.3	27.36	149.43	0.70	0.00	0.27	1.49	0.01	0.05
58	L0398	FN	Chippewas of Rama FN	Rama	715	750	9.4	8.9	104.9	319.90	304.97	12.83	0.00	9.33	8.90	1.06	1.01
59	L0400	FN	Chippewas of the Thames FN	Muncey	971	150	0.1	0.7	15.4	21.32	138.00	0.19	0.00	0.51	3.28	0.01	0.09
60	L0120	5	Clarence-Rockland	Rockland	28,823	4,168	2.0	13.6	14.5	20.79	143.76	1.46	0.15	0.23	1.60	0.01	0.05
61	L0113	3	Clarington, Municipality of	Bowmanville	91,726	43,432	6.9	14.6	47.4	33.09	69.87	2.29	0.74	0.20	0.42	0.01	0.02
62	L0115	6	Clearview Twp	Stayner	13,734	2,855	22.7	109.4	20.8	50.43	242.57	4.97	0.44	0.48	2.29	0.00	0.01
63	L0102	8	Cobalt Twp	Cobalt	1,133	1,149	9.8	9.7	101.4	55.07	54.31	2.67	0.79	0.14	0.14	0.01	0.01
64	L0116	5	Cobourg	Cobourg	18,519	10,426	12.3	21.8	56.3	68.82	122.25	3.99	1.70	0.56	0.99	0.03	0.06
65	L0117	6	Cochrane Public Library Board	Cochrane	5,340	2,017	6.9	18.2	37.8	81.25	215.12	4.91	0.36	0.85	2.24	0.07	0.19
66	L0066	5	Collingwood	Collingwood	20,197	9,774	12.1	24.9	48.4	80.46	166.27	3.32	0.68	0.30	0.62	0.02	0.05
67	L0047	4	Cornwall	Cornwall	46,340	12,227	5.8	22.0	26.4	49.41	187.25	4.04	0.29	0.23	0.86	0.02	0.07
68	L0119	6	Cramahe Twp	Colborne	5,298	2,579	10.5	21.5	48.7	45.56	93.59	5.35	1.58	0.41	0.83	0.06	0.12
69	L0402	FN	Curve Lake FN	Curve Lake.ON	779	256	1.1	3.2	32.9	53.26	162.07	3.10	0.34	0.36	1.10	0.08	0.24
70	L0051	7	Deep River	Deep River	4,193	2,862	16.4	24.0	68.3	95.32	139.65	11.91	0.36	0.67	0.97	0.03	0.04
71	L0431	FN	Delaware FN	Thamesville	235	375	0.5	0.3	159.6	87.93	55.10	0.00	0.00	0.40	0.25	0.03	0.02
72	L0323	8	Deseronto	Deseronto	1,835	1,070	8.7	15.0	58.3	76.32	130.88	2.52	0.00	1.43	2.46	0.15	0.26
73	L0403	FN	Dokis FN	Via Monetteville	176	120	6.4	9.3	68.2	251.86	369.39	8.52	0.00	0.21	0.31	0.01	0.02
74	L0050	8	Dorion Twp	Dorion	340	300	14.4	16.3	88.2	103.27	117.03	9.41	0.00	0.72	0.82	0.01	0.02
75	L0136	6	Douro-Dummer Twp	Douro	5,976	374	1.1	17.2	6.3	18.21	290.95	1.75	0.68	0.17	2.78	0.02	0.29
76	L0138	6	Dryden	Dryden	7,617	2,938	8.5	22.1	38.6	47.74	123.78	4.57	0.71	0.31	0.81	0.02	0.04
77	L0427	8	Dubreuilville Twp	Dubreuilville	635	365	4.1	7.1	57.5	14.50	25.23	3.33	1.12	0.00	0.00	0.00	0.00
78	L0144	8	Ear Falls Twp	Ear Falls	1,026	539	3.6	6.9	52.5	122.17	232.55	6.59	7.73	0.50	0.95	0.19	0.36
79	L0145	7	East Ferris	Astorville	4,766	1,865	3.1	7.9	39.1	26.61	67.99	4.13	0.69	0.19	0.50	0.02	0.04
80	L0147	5	East Gwillimbury	Holland Landing	20,498	6,474	6.1	19.4	31.6	67.74	214.49	4.26	2.65	0.52	1.63	0.04	0.13
81	L0467	6	Edwardsburgh/Cardinal Twp	Spencerville	6,959	781	2.9	25.5	11.2	14.65	130.57	2.41	0.48	0.22	1.99	0.02	0.21
82	L0151	4	Elgin County	St. Thomas	49,556	14,049	4.8	17.1	28.4	54.14	190.95	3.69	2.21	0.48	1.70	0.03	0.12
83	L0469	6	Elizabethtown - Kitley	Addison	9,724	1,650	1.9	11.0	17.0	11.18	65.86	1.78	0.47	0.13	0.75	0.01	0.05
84	L0152	6	Elliot Lake	Elliot Lake	10,218	3,787	4.9	13.3	37.1	42.21	113.89	2.25	0.31	0.05	0.13	0.00	0.01
85	L0098	8	Emo Twp	Emo	1,056	1,526	14.3	9.9	144.5	74.25	51.38	10.40	1.75	0.08	0.06	0.00	0.00
86	L0054	8	Englehart	Englehart	1,257	1,877	14.8	9.9	149.3	70.68	47.34	5.69	0.00	1.06	0.71	0.03	0.02
87	L0052	6	Espanola	Espanola	5,364	4,846	8.1	8.9	90.3	64.95	71.89	6.56	1.09	0.23	0.26	0.03	0.03
88	L0387	5	Essa	Angus	18,505	4,019	9.0	41.4	21.7	36.03	165.89	3.63	1.09	0.34	1.58	0.05	0.23
89	L0153	2	Essex County	Essex	176,642	31,246	5.6	31.5	17.7	28.43	160.74	2.31	2.31	0.14	0.80	0.03	0.15
90	L0055	8	Fauquier-Strickland Twp	Fauquier	525	517	12.0	12.1	98.5	102.37	103.96	11.81	0.00	0.10	0.11	0.02	0.02
91	L0156	5	Fort Erie	Fort Erie	29,960	9,300	6.5	21.0	31.0	49.75	160.26	3.44	1.61	0.31	0.99	0.02	0.08
92	L0157	6	Fort Frances	Fort Frances	7,955	3,759	11.0	23.3	47.3	78.54	166.20	4.58	2.29	1.52	3.22	0.08	0.16
93	L0325	7	French River	Noelville	2,547	2,501	9.9	10.1	98.2	53.89	54.88	2.91	0.94	0.47	0.48	0.03	0.03
94	L0448	7	Front of Yonge Twp	Mallorytown	2,752	465	2.6	15.6	16.9	18.26	108.09	3.09	0.85	0.15	0.89	0.02	0.09
95	L0160	6	Gananoque	Gananoque	5,194	1,755	5.6	16.7	33.8	36.84	109.03	3.36	0.39	0.15	0.43	0.02	0.05
96	L0404	FN	Garden River FN	Garden River	1,222	145	0.8	6.7	11.9	22.87	192.71	0.00	9.99	0.23	1.92	0.05	0.39
97	L0162	8	Georgian Bay Twp	Honey Harbour	2,063	1,753	12.3	14.5	85.0	91.38	107.54	9.05	3.85	0.60	0.71	0.05	0.05
98	L0072	4	Georgina	Keswick	49,700	14,429	5.7	19.6	29.0	44.06	151.76	2.53	0.64	0.25	0.85	0.02	0.07
99	L0465	8	Gogama LSB	Gogama	475	475	0.9	0.9	100.0	2.80	2.80	1.05	0.17	0.00	0.00	0.00	0.00
100	L0302	8	Gore Bay Union	Gore Bay	1,684	750	6.9	15.4	44.5	30.11	67.60	2.75	0.24	0.03	0.06	0.00	0.00
				Average of ALL libraries' values==>>	43,253	14,639	7.6	18.6	47.5	62.28	167.57	4.82	2.44	0.74	1.76	0.06	0.13
				Median of ALL libraries' values==>>	5,338	2,029	6.8	16.5	38.5	48.22	126.97	3.44	0.88	0.32	0.86	0.02	0.06

Table 2: Key Ratios for Ontario Public Libraries, 2015 (continued)

Library Number	Band	Library Name	City	Population (Resident)	Active Cardholders	Circs per capita	Circs per cardholder	Cardholders as a % of Population	Total Operating	Total Operating	General	Electronic	Program	Program	Programs	Programs	
									Expenditures per capita	Expenditures per cardholder	Expenditures per capita	Expenditures per cardholder	Attendance per capita	Attendance per cardholder	Offered per capita	Offered per cardholder	
101	L0073	8	Grand Valley Library Board	Grand Valley	2,450	2,166	21.0	23.8	88.4	103.21	116.74	13.46	4.28	1.06	1.20	0.13	0.14
102	L0168	6	Gravenhurst Public Library	Gravenhurst	12,055	5,332	8.5	19.3	44.2	50.08	113.22	3.02	1.17	0.73	1.65	0.02	0.05
103	L0478	8	Greater Madawaska Twp	Calabogie	2,485	522	2.6	12.2	21.0	30.46	144.98	2.73	0.49	0.42	1.99	0.03	0.14
104	L0470	2	Greater Sudbury	Greater Sudbury	161,900	86,335	5.2	9.7	53.3	50.52	94.74	3.63	3.16	0.24	0.45	0.01	0.02
105	L0471	7	Greenstone	Geraldton	4,467	2,326	5.9	11.3	52.1	105.66	202.91	7.50	1.67	0.37	0.72	0.01	0.03
106	L0472	6	Grey Highlands	Flesherton	8,033	4,797	7.4	12.5	59.7	48.52	81.25	3.05	0.44	0.47	0.79	0.07	0.11
107	L0169	5	Grimsby	Grimsby	25,325	7,870	8.5	27.3	31.1	37.89	121.94	3.40	1.82	0.41	1.30	0.03	0.09
108	L0389	2	Guelph	Guelph	126,250	57,282	16.7	36.7	45.4	72.64	160.09	8.12	2.75	0.38	0.83	0.01	0.03
109	L0473	4	Haldimand County	Dunnville	44,876	16,400	7.8	21.4	36.5	39.05	106.85	2.60	1.87	0.22	0.61	0.03	0.07
110	L0171	6	Haliburton County	Haliburton	14,305	6,087	11.2	26.4	42.6	62.68	147.30	7.13	0.71	0.51	1.20	0.02	0.05
111	L0326	3	Halton Hills	Georgetown	57,551	17,627	10.4	33.9	30.6	64.24	209.74	2.29	2.03	0.40	1.29	0.03	0.09
112	L0474	1	Hamilton	Hamilton	550,700	153,796	11.8	42.1	27.9	55.96	200.39	2.40	3.55	0.32	1.13	0.02	0.06
113	L0174	6	Hanover	Hanover	7,490	2,128	10.0	35.1	28.4	80.26	282.50	5.04	1.35	0.60	2.12	0.07	0.26
114	L0475	7	Hastings Highlands Twp	Maynooth	4,170	1,863	3.3	7.4	44.7	51.14	114.47	1.96	0.35	0.35	0.78	0.01	0.01
115	L0058	7	Havelock-Belmont-Methuen Twp	Havelock	3,992	1,826	5.8	12.8	45.7	35.00	76.51	4.51	0.40	0.07	0.16	0.00	0.00
116	L0059	6	Hawkesbury	Hawkesbury	10,551	6,998	5.2	7.9	66.3	48.66	73.36	2.28	0.83	0.26	0.39	0.01	0.02
117	L0179	8	Head, Clara & Maria	Stonecliffe	201	185	21.0	22.8	92.0	73.35	79.69	18.19	2.49	2.75	2.98	0.06	0.06
118	L0180	6	Hearst Twp	Hearst	5,090	2,262	6.2	13.9	44.4	51.01	114.78	3.61	0.00	0.19	0.43	0.00	0.01
119	L0460	FN	Henvey Inlet FN	Pickernel	189	70	7.7	20.7	37.0	141.43	381.86	2.65	0.00	0.11	0.29	0.02	0.06
120	L0183	8	Hilton Union	Hilton Beach	417	325	9.3	11.9	77.9	93.58	120.07	10.39	4.02	0.19	0.24	0.04	0.05
121	L0184	8	Hornepayne Twp	Hornepayne	1,050	381	3.8	10.4	36.3	95.39	262.89	4.20	4.93	0.33	0.91	0.05	0.15
122	L0185	5	Huntsville	Huntsville	19,056	13,973	8.4	11.4	73.3	46.48	63.38	4.58	2.46	0.51	0.70	0.02	0.03
123	L0188	3	Huron County	Clinton	57,579	18,422	6.4	19.9	32.0	51.92	162.27	7.87	0.94	0.29	0.89	0.03	0.09
124	L0189	8	Huron Shores	Iron Bridge	1,723	267	0.9	6.0	15.5	28.02	180.80	2.61	0.29	0.20	1.28	0.00	0.01
125	L0327	8	Ignace	Ignace	1,202	424	6.2	17.6	35.3	57.21	162.18	2.65	2.51	0.09	0.26	0.00	0.01
126	L0277	4	Innisfil	Innisfil	35,717	22,017	6.8	11.1	61.6	90.82	147.33	2.59	2.50	1.07	1.74	0.04	0.06
127	L0278	7	Iroquois Falls	Iroquois Falls	4,106	1,924	7.3	15.6	46.9	60.77	129.70	2.39	0.00	0.27	0.58	0.02	0.05
128	L0438	FN	Iskatewizaagegan No. 39 FN	Shoal Lake	319	60	0.7	3.8	18.8	119.83	637.08	28.02	0.00	0.05	0.28	0.01	0.05
129	L0280	8	James Twp	Elk Lake	424	402	4.6	4.8	94.8	91.17	96.16	4.45	2.84	0.27	0.28	0.06	0.07
130	L0122	6	Kapuskasing	Kapuskasing	7,083	2,040	4.1	14.3	28.8	29.93	103.92	4.81	0.15	0.16	0.57	0.01	0.02
131	L0476	3	Kawartha Lakes, City of	Lindsay	73,214	15,389	6.1	29.2	21.0	24.03	114.33	4.77	0.52	0.20	0.94	0.02	0.10
132	L0123	8	Kearney & Area	Kearney	841	462	7.0	12.8	54.9	49.22	89.60	4.82	2.99	0.28	0.51	0.04	0.08
133	L0485	5	Kenora City	Kenora	15,348	5,284	9.9	28.8	34.4	47.19	137.07	4.06	1.45	0.21	0.60	0.01	0.03
134	L0385	8	Killaloe, Hagarty & Richards Twp	Killaloe	2,229	993	9.4	21.1	44.5	44.81	100.59	2.83	1.22	0.26	0.58	0.10	0.22
135	L0125	5	King Twp	King City	19,899	9,467	7.2	15.2	47.6	80.40	169.00	3.56	3.22	0.86	1.82	0.05	0.10
136	L0213	2	Kingston-Frontenac County	Kingston	153,992	55,955	9.2	25.4	36.3	47.24	130.01	5.47	1.66	0.28	0.76	0.02	0.04
137	L0126	6	Kirkland Lake	Kirkland Lake	8,493	4,496	5.2	9.8	52.9	33.03	62.39	2.91	0.66	0.31	0.58	0.04	0.08
138	L0127	2	Kitchener	Kitchener	239,900	88,241	10.2	27.6	36.8	46.95	127.63	2.88	2.41	0.32	0.88	0.01	0.04
139	L0091	6	La Nation	St-Isidore	11,668	3,809	3.6	11.1	32.6	35.19	107.79	4.09	0.14	0.06	0.20	0.00	0.01
140	L0238	7	Lake of Bays Twp	Baysville	3,284	4,723	21.0	14.6	143.8	106.35	73.95	5.83	0.00	2.42	1.68	0.18	0.13
141	L0239	2	Lambton County	Wyoming	126,199	33,980	6.5	24.2	26.9	50.08	185.98	4.82	2.49	0.52	1.91	0.04	0.14
142	L0330	6	Lanark Highlands	Lanark	5,128	1,296	4.2	16.4	25.3	17.81	70.45	2.29	0.51	0.02	0.06	0.00	0.02
143	L0240	8	Larder Lake Public Library	Larder Lake	735	381	13.5	26.0	51.8	111.87	215.82	10.71	7.59	0.96	1.84	0.08	0.15
144	L0384	7	Laurentian Hills	Deep River	2,811	284	3.1	30.7	10.1	41.52	410.92	8.75	2.16	0.36	3.57	0.05	0.47
145	L0477	6	Leeds and the Thousand Islands Twp	Lansdowne	9,277	4,419	6.5	13.6	47.6	50.24	105.46	3.84	0.71	0.49	1.03	0.05	0.10
146	L0243	4	Lennox and Addington County	Napanee	40,069	9,732	4.3	17.6	24.3	31.68	130.43	1.66	0.32	0.42	1.73	0.04	0.15
147	L0433	5	Lincoln	Beamsville	20,106	7,254	12.0	33.1	36.1	53.07	147.11	4.88	1.18	0.48	1.34	0.04	0.10
148	L0245	1	London	London	381,310	143,102	10.1	27.0	37.5	54.65	145.61	3.82	1.41	0.58	1.55	0.04	0.12
149	L0497	8	Loring, Port Loring and District Local Services Board	Port Loring	800	430	8.2	15.3	53.8	7.26	13.51	5.78	0.75	0.28	0.52	0.02	0.04
150	L0496	7	Madawaska Valley Twp	Barry's Bay	3,794	1,840	6.2	12.7	48.5	46.56	96.00	4.56	1.06	0.15	0.30	0.03	0.07
				Average of ALL libraries' values==>	43,253	14,639	7.6	18.6	47.5	62.28	167.57	4.82	2.44	0.74	1.76	0.06	0.13
				Median of ALL libraries' values==>	5,338	2,029	6.8	16.5	38.5	48.22	126.97	3.44	0.88	0.32	0.86	0.02	0.06

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									per capita	per cardholder	per capita	per cardholder	per capita	per cardholder	per capita	per cardholder	
151	L0407	FN	Magnetawan FN	Britt	75	5	1.8	27.0	6.7	282.51	4237.60	0.00	0.00	0.00	0.00	0.00	0.00
152	L0194	8	Magnetawan Twp	Magnetawan	1,165	986	7.0	8.3	84.6	81.81	96.66	2.87	0.85	0.57	0.67	0.09	0.11
153	L0195	8	Manitouwadge	Manitouwadge	1,818	437	7.5	31.0	24.0	64.68	269.07	2.65	0.55	0.06	0.24	0.01	0.03
154	L0196	7	Marathon	Marathon	3,353	1,025	6.4	21.0	30.6	55.09	180.22	2.40	0.88	1.58	5.16	0.17	0.57
155	L0099	1	Markham	Markham	349,884	152,298	13.1	30.1	43.5	41.79	96.00	6.47	1.62	0.45	1.04	0.02	0.05
156	L0447	8	Markstay-Warren	Markstay	2,366	577	4.4	18.1	24.4	39.17	160.60	1.73	0.86	2.46	10.10	0.17	0.71
157	L0463	7	Marmora and Lake Twp	Marmora	4,070	2,146	4.7	8.9	52.7	25.41	48.19	1.16	0.53	0.16	0.30	0.03	0.05
158	L0428	FN	Mattagami FN	Gogama	170	40	8.8	37.5	23.5	213.41	907.00	0.00	0.00	0.50	2.13	0.01	0.05
159	L0134	8	Mattawa	Mattawa	2,114	1,950	16.5	17.9	92.2	57.29	62.11	0.00	0.95	15.24	16.53	0.40	0.43
160	L0020	8	Mattice-Val Cote Twp	Mattice	661	434	8.1	12.3	65.7	117.20	178.50	14.87	3.77	0.61	0.93	0.08	0.13
161	L0199	8	McGarry Twp	Virginiatown	586	692	9.8	8.3	118.1	116.73	98.85	3.73	1.58	0.03	0.03	0.00	0.00
162	L0406	FN	M'Chigeeng FN	M'Chigeeng First Nation	934	149	6.9	43.2	16.0	48.37	303.21	7.48	0.43	5.74	36.00	0.43	2.71
163	L0200	8	McKellar Twp	McKellar	1,012	440	3.2	7.2	43.5	45.01	103.53	3.16	1.27	0.14	0.31	0.00	0.00
164	L0203	6	Meaford	Meaford	11,100	3,982	7.2	19.9	35.9	63.43	176.80	2.99	0.36	0.99	2.76	0.08	0.23
165	L0204	7	Merrickville-Wolford	Merrickville	2,850	1,497	11.9	22.7	52.5	37.71	71.80	3.23	0.74	1.06	2.02	0.11	0.20
166	L0464	FN	Michipicoten FN	Wawa	65	84	18.8	14.6	129.2	460.66	356.46	70.82	0.00	0.89	0.69	0.78	0.61
167	L0205	3	Middlesex County Library	Strathroy	76,004	21,945	5.2	17.9	28.9	43.53	150.75	1.76	0.45	0.61	2.10	0.06	0.21
168	L0022	5	Midland	Midland	16,572	14,772	7.2	8.1	89.1	83.22	93.36	3.67	0.95	0.29	0.32	0.01	0.01
169	L0434	2	Milton	Milton	103,700	58,128	12.2	21.8	56.1	44.20	78.85	3.35	1.72	0.48	0.86	0.02	0.03
170	L0206	1	Mississauga	Mississauga	764,000	211,655	8.4	30.2	27.7	34.59	124.85	2.90	0.96	0.16	0.58	0.01	0.04
171	L0459	FN	Mississauga FN	Blind River	392	445	7.5	6.6	113.5	47.96	42.25	0.00	0.00	0.09	0.08	0.01	0.01
172	L0440	FN	Mississaugas of Scugog Island FN	Port Perry	48	56	1.0	0.9	116.7	306.52	262.73	0.00	0.00	0.71	1.61	0.46	0.39
173	L0210	6	Mississippi Mills	Almonte	12,385	9,279	10.1	13.5	74.9	46.78	62.44	3.27	1.00	0.66	0.89	0.03	0.04
174	L0408	FN	Mohawks of Akwesasne FN	Cornwall	9,601	3,627	0.7	1.8	37.8	44.91	118.87	3.97	0.00	0.01	0.03	0.00	0.00
175	L0405	FN	Mohawks of the Bay of Quinte FN	Tyendinaga Mohawk Terr	2,160	669	0.6	2.0	31.0	26.31	84.95	0.48	0.60	0.15	0.48	0.02	0.06
176	L0211	8	Moonbeam Twp	Moonbeam	1,039	578	10.4	18.7	55.6	132.50	238.17	14.20	3.23	0.58	1.05	0.01	0.02
177	L0212	6	Muskoka Lakes Twp	Port Carling	6,707	1,417	4.4	21.0	21.1	62.72	296.85	3.97	1.35	0.54	2.55	0.04	0.19
178	L0409	FN	Nautamegwaning FN	Nautamegwaning	747	353	0.8	1.6	47.3	41.03	86.82	1.00	0.00	0.15	0.33	0.01	0.02
179	L0410	FN	New Credit FN	Hagersville	941	260	0.2	0.6	27.6	41.41	149.87	9.52	0.00	0.31	1.12	0.02	0.07
180	L0207	4	New Tecumseth	Alliston	33,998	9,783	12.6	43.8	28.8	41.35	143.69	5.59	0.41	0.33	1.14	0.02	0.05
181	L0019	3	Newmarket	Newmarket	86,071	23,862	5.9	21.3	27.7	36.72	132.46	2.36	1.15	0.17	0.62	0.02	0.07
182	L0222	3	Niagara Falls	Niagara Falls	82,997	36,074	7.2	16.6	43.5	51.84	119.26	1.44	1.66	0.32	0.74	0.02	0.04
183	L0223	5	Niagara-on-the-Lake	Niagara-on-the-Lake	15,400	13,116	7.7	9.0	85.2	44.55	52.30	3.81	1.47	0.24	0.28	0.02	0.02
184	L0225	8	Nipigon Twp	Nipigon	1,631	761	6.5	13.9	46.7	70.30	150.67	4.82	1.10	0.32	0.68	0.04	0.08
185	L0412	FN	Nipissing FN	Garden Village	956	62	0.5	7.9	6.5	53.93	831.61	4.18	0.00	5.29	81.52	0.26	3.97
186	L0480	3	Norfolk County	Simcoe	63,175	17,221	4.4	16.0	27.3	47.20	173.14	2.67	1.81	0.35	1.28	0.02	0.07
187	L0227	3	North Bay	North Bay	53,651	43,990	6.3	7.6	82.0	42.48	51.81	2.05	0.95	0.11	0.14	0.00	0.01
188	L0228	5	North Grenville Twp	Kemptville	15,085	6,815	6.3	14.0	45.2	32.83	72.68	1.72	0.68	0.52	1.15	0.03	0.08
189	L0382	8	North Kawartha Twp	Apsley	2,126	5,840	12.7	4.6	274.7	124.77	45.42	8.32	1.68	0.33	0.12	0.05	0.02
190	L0231	6	North Perth	Monkton	12,631	3,295	8.2	31.5	26.1	53.14	203.69	2.63	1.38	0.66	2.52	0.05	0.18
191	L0232	7	Northeastern Manitoulin and the Islands	Little Current On	2,706	936	5.4	15.5	34.6	36.30	104.93	3.97	0.53	0.26	0.74	0.04	0.11
192	L0247	2	Oakville	Oakville	190,100	74,120	10.4	26.7	39.0	50.01	128.27	2.40	2.16	0.32	0.82	0.02	0.04
193	L0413	FN	Ojibways of Onigaming FN	Nestor Falls	465	126	2.0	7.3	27.1	41.47	153.06	22.75	18.73	2.03	7.48	0.08	0.29
194	L0456	FN	Ojibways of the Pic River FN	Heron Bay	528	108	5.4	26.5	20.5	74.41	363.77	1.47	4.74	0.54	2.63	0.03	0.16
195	L0165	6	Oliver Paipoonge	Murillo	5,174	1,311	4.6	18.0	25.3	24.62	97.18	2.18	0.30	0.52	2.06	0.00	0.02
196	L0250	8	Opasatika	Opasatika	221	118	10.0	18.7	53.4	111.26	208.38	9.48	0.00	0.00	0.00	0.00	0.00
197	L0074	5	Orangeville	Orangeville	28,734	8,199	6.2	21.6	28.5	58.19	203.93	4.14	0.73	0.18	0.61	0.01	0.03
198	L0023	4	Orillia	Orillia	30,797	12,918	10.1	24.1	41.9	70.59	168.29	3.45	1.73	0.85	2.02	0.05	0.12
199	L0253	2	Oshawa	Oshawa	162,500	59,129	10.7	29.4	36.4	54.64	150.16	3.00	1.60	0.22	0.60	0.01	0.03
200	L0255	6	Otonabee-South Monaghan Twp	Keene	6,660	2,370	4.4	12.3	35.6	26.41	74.21	2.66	0.42	0.33	0.93	0.00	0.01
				Average of ALL libraries' values==>>	43,253	14,639	7.6	18.6	47.5	62.28	167.57	4.82	2.44	0.74	1.76	0.06	0.13
				Median of ALL libraries' values==>>	5,338	2,029	6.8	16.5	38.5	48.22	126.97	3.44	0.88	0.32	0.86	0.02	0.06

Table 2: Key Ratios for Ontario Public Libraries, 2015 (continued)

Library Number	Band	Library Name	City	Population (Resident)	Active Cardholders	Circs per capita	Circs per cardholder	Cardholders as a % of Population	Total Operating	Total Operating	General	Electronic	Program	Program	Programs	Programs	
									Expenditures per capita	Expenditures per cardholder	Expenditures per capita	Expenditures per cardholder	Attendance per capita	Attendance per cardholder	Offered per capita	Offered per cardholder	
201	L0481	1	Ottawa	Ottawa	960,754	294,323	11.9	38.8	30.6	49.05	160.12	4.25	1.06	0.25	0.80	0.01	0.04
202	L0256	4	Owen Sound & North Grey Union	Owen Sound	35,208	11,946	8.4	24.9	33.9	42.83	126.22	2.36	1.14	0.30	0.88	0.01	0.04
203	L0257	3	Oxford County	Woodstock	65,471	17,607	9.2	34.1	26.9	55.32	205.70	4.80	1.20	0.41	1.51	0.05	0.17
204	L0095	6	Parry Sound	Parry Sound	6,191	4,330	9.9	14.1	69.9	59.86	85.59	3.53	0.43	0.88	1.25	0.06	0.09
205	L0262	5	Pelham	Fonthill	15,626	8,001	12.6	24.6	51.2	57.24	111.80	3.58	1.21	0.44	0.86	0.03	0.06
206	L0071	6	Pembroke	Pembroke	10,867	4,526	13.7	32.9	41.6	56.85	136.50	4.73	0.47	0.77	1.85	0.08	0.18
207	L0263	6	Penetanguishene	Penetanguishene	9,111	5,514	14.0	23.1	60.5	48.06	79.41	4.62	0.55	0.09	0.15	0.03	0.04
208	L0202	8	Perry Twp	Emsdale	1,787	338	2.9	15.4	18.9	51.20	270.68	3.69	2.42	0.32	1.69	0.02	0.13
210	L0264	5	Perth and District Union	Perth	19,380	7,121	6.0	16.4	36.7	33.74	91.81	2.82	0.53	0.21	0.58	0.02	0.07
209	L0265	6	Perth East	Milverton	9,882	1,161	6.2	53.0	11.7	27.10	230.66	2.40	0.82	0.35	2.95	0.03	0.28
211	L0267	5	Petawawa	Petawawa	15,973	9,589	9.0	15.0	60.0	40.66	67.73	2.39	1.01	0.51	0.86	0.04	0.07
212	L0268	3	Peterborough	Peterborough	78,700	16,378	5.8	27.8	20.8	48.87	234.83	3.04	2.91	0.13	0.64	0.00	0.02
213	L0261	8	Phelps	Redbridge	1,500	271	1.0	5.5	18.1	5.57	30.82	0.19	0.00	0.02	0.11	0.00	0.01
214	L0340	3	Pickering	Pickering	95,593	42,625	12.5	28.1	44.6	59.84	134.19	2.63	2.98	0.28	0.63	0.01	0.02
215	L0024	5	Port Colborne	Port Colborne	18,003	8,873	9.7	19.6	49.3	41.32	83.83	2.32	1.48	0.33	0.67	0.03	0.05
216	L0499	5	Port Hope	Port Hope	16,214	14,753	9.8	10.7	91.0	46.12	50.69	3.12	0.28	0.21	0.23	0.01	0.02
217	L0273	6	Powassan & District Union Public Library	Powassan	5,840	1,925	7.9	23.8	33.0	45.56	138.21	1.90	1.21	1.26	3.83	0.13	0.39
218	L0274	7	Prescott	Prescott	4,284	1,484	5.4	15.5	34.6	35.79	103.33	2.67	0.40	0.24	0.68	0.01	0.04
219	L0276	5	Prince Edward County	Picton	25,258	8,396	6.8	20.3	33.2	46.77	140.71	2.74	1.43	0.45	1.36	0.02	0.07
220	L0275	8	Prince Twp Public Library	Prince Township	1,031	165	0.8	4.8	16.0	16.37	102.32	4.81	0.64	0.21	1.34	0.04	0.26
221	L0285	4	Quinte West	Trenton	43,086	18,622	6.0	13.9	43.2	33.44	77.37	1.89	0.96	0.18	0.43	0.01	0.02
222	L0131	8	Rainy River	Rainy River	642	746	28.6	24.6	116.2	138.37	119.08	16.09	4.22	0.41	0.36	0.03	0.03
223	L0446	FN	Rainy River FN	Emo	437	80	3.2	17.3	18.3	51.04	278.79	3.42	0.00	0.20	1.08	0.06	0.33
224	L0287	6	Ramara Twp	Brechin	8,110	2,056	4.8	18.9	25.4	50.82	200.48	2.56	0.71	0.23	0.90	0.01	0.03
225	L0290	7	Red Lake	Balmertown	4,670	2,041	4.1	9.4	43.7	48.73	111.50	4.61	1.13	0.09	0.21	0.00	0.01
226	L0291	8	Red Rock Twp	Red Rock	942	508	7.9	14.6	53.9	91.17	169.05	7.42	5.19	1.15	2.13	0.12	0.22
227	L0292	6	Renfrew	Renfrew	8,220	4,680	10.1	17.8	56.9	55.05	96.89	3.48	1.07	0.57	1.00	0.07	0.12
228	L0294	2	Richmond Hill	Richmond Hill	206,850	56,948	10.7	38.9	27.5	50.88	184.82	3.48	1.60	0.27	0.98	0.02	0.06
229	L0498	6	Rideau Lakes Public Library	Elgin	9,050	5,471	8.4	13.9	60.5	52.67	87.13	2.87	1.90	0.38	0.63	0.03	0.05
230	L0300	5	Russell	Russell	15,250	5,971	5.6	14.3	39.2	42.81	109.33	2.88	0.73	0.53	1.36	0.03	0.08
231	L0303	7	Sables-Spanish Rivers Twp	Massey	2,744	1,025	5.8	15.5	37.4	59.36	158.92	5.39	0.18	0.30	0.80	0.02	0.06
232	L1084	FN	Sachigo Lake FN	Sachigo Lake	497	175	2.0	5.7	35.2	70.67	200.70	0.00	0.34	0.50	1.41	0.08	0.22
233	L0432	FN	Sagamok Anishnawbek FN	Massey	1,567	221	0.1	0.9	14.1	26.81	190.11	2.86	0.00	0.08	0.54	0.01	0.04
234	L0415	FN	Saugeen FN	Southampton	1,890	103	1.7	31.2	5.5	26.11	479.12	2.65	1.06	0.23	4.16	0.01	0.24
235	L0191	3	Sault Ste. Marie	Sault Ste. Marie	75,140	18,912	5.3	21.2	25.2	44.69	177.58	1.62	0.61	0.18	0.73	0.01	0.05
236	L0301	8	Schreiber Twp	Schreiber	1,126	816	9.3	12.8	72.5	110.76	152.84	5.80	2.82	3.16	4.36	0.18	0.25
237	L0304	5	Scugog Memorial	Port Perry	18,575	8,474	8.0	17.6	45.6	38.93	85.33	1.57	0.82	0.49	1.08	0.03	0.07
238	L0321	7	Seguin Twp	Seguin	4,276	1,495	3.3	9.3	35.0	41.29	118.10	2.64	0.59	0.01	0.02	0.00	0.00
239	L0416	FN	Seine River FN	Seine River FN	344	32	0.9	9.6	9.3	105.37	1132.72	4.02	0.00	0.11	1.19	0.01	0.09
240	L0309	5	Selwyn	Bridgenorth	17,419	5,174	7.4	24.9	29.7	32.83	110.54	4.34	0.52	0.47	1.59	0.05	0.17
241	L0417	FN	Serpent River FN	Cutler	359	190	0.6	1.2	52.9	58.55	110.63	10.64	0.00	1.16	2.20	0.06	0.12
242	L0258	6	Severn Township Library	Coldwater	11,336	1,017	3.5	39.1	9.0	12.67	141.18	1.23	1.40	0.04	0.40	0.00	0.02
243	L0418	FN	Shawanaga FN	Nobel	182	203	10.2	9.2	111.5	116.26	104.23	10.19	3.06	2.85	2.55	0.25	0.23
244	L0075	6	Shelburne	Shelburne	6,941	6,674	11.8	12.3	96.2	56.01	58.25	7.56	2.67	0.65	0.68	0.08	0.08
245	L0419	FN	Shesheganwaning FN	Shesheganwaning	112	20	8.9	50.0	17.9	162.51	910.05	0.00	0.00	0.18	1.00	0.02	0.10
246	L0307	8	Simcoe County Co-operative	Midhurst	742	742	14.0	14.0	100.0	912.16	912.16	39.37	355.71	0.00	0.00	0.00	0.00
247	L0031	6	Sioux Lookout	Sioux Lookout	5,336	2,171	8.0	19.6	40.7	85.82	210.92	4.65	2.95	0.66	1.62	0.05	0.12
248	L0308	8	Sioux Narrows Nestor Falls Twp	Sioux Narrows	720	466	7.4	11.5	64.7	48.79	75.38	19.98	0.00	0.05	0.08	0.00	0.00
249	L0420	FN	Six Nations FN	Ohsweken	12,606	3,662	1.1	3.7	29.1	24.44	84.14	0.32	0.22	0.24	0.84	0.03	0.10
250	L0209	6	Smiths Falls	Smiths Falls	8,978	4,536	6.8	13.4	50.5	48.68	96.36	2.93	0.88	0.41	0.80	0.04	0.08
				Average of ALL libraries' values==>>	43,253	14,639	7.6	18.6	47.5	62.28	167.57	4.82	2.44	0.74	1.76	0.06	0.13
				Median of ALL libraries' values==>>	5,338	2,029	6.8	16.5	38.5	48.22	126.97	3.44	0.88	0.32	0.86	0.02	0.06

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									Expenditures per capita	Expenditures per cardholder	Expenditures per capita	Expenditures per cardholder	Attendance per capita	Attendance per cardholder	Offered per capita	Offered per cardholder	
251	L0310	8	Smooth Rock Falls	Smooth Rock Falls	1,376	789	1.7	3.0	57.3	42.08	73.38	6.69	0.00	0.04	0.06	0.01	0.01
252	L0311	8	South Algonquin Twp	Whitney	1,211	660	5.0	9.2	54.5	43.04	78.97	5.28	0.00	0.58	1.07	0.03	0.06
253	L0312	8	South River-Machar Union	South River	1,849	793	4.9	11.4	42.9	43.66	101.80	3.68	1.38	0.39	0.90	0.03	0.07
254	L0332	6	Southgate Twp.	Dundalk	7,190	1,930	2.5	9.2	26.8	25.35	94.43	1.91	0.28	0.27	1.00	0.03	0.09
255	L0381	8	Spanish Twp	Spanish	696	227	4.9	14.9	32.6	66.69	204.46	3.91	0.00	0.13	0.38	0.00	0.01
256	L0259	5	Springwater Twp	Midhurst	18,223	5,270	7.4	25.7	28.9	31.48	108.85	1.86	0.58	0.36	1.24	0.03	0.11
257	L0025	2	St. Catharines	St. Catharines	131,400	60,440	8.0	17.5	46.0	44.18	96.04	4.71	2.46	0.14	0.30	0.01	0.02
258	L0313	8	St. Charles	St. Charles	1,282	243	4.8	25.4	19.0	46.61	245.88	3.48	0.00	0.94	4.96	0.05	0.27
259	L0314	8	St. Joseph Twp	Richards Landing	1,201	1,625	9.0	6.6	135.3	23.82	17.60	5.09	0.74	0.02	0.02	0.00	0.00
260	L0271	6	St. Marys Public Library	St. Marys	6,165	2,992	17.5	36.0	48.5	74.21	152.90	9.38	0.82	1.14	2.36	0.07	0.14
261	L0315	4	St. Thomas	St. Thomas	37,905	12,926	10.8	31.8	34.1	60.49	177.37	3.44	1.19	0.20	0.59	0.01	0.04
262	L0318	7	Stirling-Rawdon	Stirling	4,978	3,215	8.8	13.6	64.6	31.05	48.08	1.70	0.24	0.96	1.48	0.03	0.05
263	L0319	3	Stormont, Dundas & Glengarry County	Cornwall	64,824	8,746	3.6	26.8	13.5	34.36	254.68	2.57	1.11	0.18	1.34	0.02	0.16
264	L0269	4	Stratford	Stratford	30,886	8,727	10.0	35.3	28.3	81.11	287.07	3.43	2.47	0.38	1.35	0.02	0.05
265	L0284	8	Sundridge-Strong Union	Sundridge	2,234	918	6.3	15.4	41.1	37.98	92.43	5.62	1.01	0.22	0.53	0.01	0.03
266	L0342	6	Tay Twp	Port McNicoll	9,376	2,240	6.1	25.6	23.9	43.92	183.82	2.19	0.62	0.27	1.11	0.04	0.16
267	L0343	8	Tehkummah Twp	Tehkummah	406	455	6.7	5.9	112.1	28.44	25.38	5.89	0.00	0.00	0.00	0.00	0.00
268	L0021	8	Temagami	Temagami	820	582	9.8	13.8	71.0	82.34	116.01	12.80	2.04	0.21	0.30	0.02	0.03
269	L0439	FN	Temagami FN	Bear Island	239	125	12.5	23.9	52.3	96.98	185.42	7.84	9.77	1.68	3.22	0.21	0.40
270	L0137	6	Temiskaming Shores	Haileybury	10,400	3,393	5.5	16.8	32.6	46.04	141.13	4.07	1.19	0.25	0.76	0.03	0.08
271	L0344	8	Terrace Bay Twp	Terrace Bay	1,365	1,195	10.9	12.4	87.5	153.09	174.87	10.70	1.28	0.71	0.82	0.07	0.08
272	L0065	6	The Blue Mountains	Thornbury	6,453	3,713	15.0	26.0	57.5	103.64	180.12	7.29	1.46	1.56	2.71	0.07	0.13
273	L0346	8	Thessalon	Thessalon	1,280	1,514	7.0	6.0	118.3	44.90	37.96	7.24	1.48	0.23	0.19	0.01	0.01
274	L0422	FN	Thessalon FN	Thessalon	106	150	0.5	0.3	141.5	245.62	173.57	57.10	0.00	0.54	0.38	0.06	0.04
275	L0348	5	Thorold	Thorold	17,931	4,711	4.8	18.3	26.3	35.20	133.96	2.98	0.29	0.34	1.29	0.03	0.11
276	L0349	2	Thunder Bay	Thunder Bay	108,359	27,688	7.0	27.2	25.6	57.42	224.73	3.13	1.69	0.29	1.14	0.01	0.05
277	L0351	4	Timmins	Timmins	43,165	12,577	2.0	6.9	29.1	41.46	142.29	1.67	0.42	0.24	0.84	0.01	0.05
278	L0353	1	Toronto	Toronto	2,826,498	913,443	11.5	35.6	32.3	67.94	210.21	4.85	1.68	0.33	1.01	0.01	0.04
279	L0500	6	Trent Hills	Campbellford	12,604	2,881	7.0	30.6	22.9	38.85	169.95	2.94	0.56	0.30	1.31	0.04	0.19
280	L0159	6	Trent Lakes	Buckhorn	5,105	2,797	6.3	11.5	54.8	43.57	79.51	3.92	0.66	0.36	0.67	0.05	0.09
281	L0450	8	Tudor & Cashel Twp	Gilmour	586	225	2.1	5.4	38.4	22.18	57.76	2.56	3.41	0.00	0.00	0.00	0.00
282	L0355	7	Tweed	Tweed	4,955	3,109	5.5	8.8	62.7	35.15	56.02	2.77	0.98	0.57	0.90	0.03	0.05
283	L0339	7	Tyendinaga Twp	Shannonville	3,582	2,732	31.1	40.7	76.3	26.12	34.25	2.04	0.00	0.49	0.64	0.06	0.08
284	L0356	5	Uxbridge Twp	Uxbridge	20,623	11,995	8.4	14.5	58.2	38.74	66.60	2.27	0.60	0.40	0.70	0.02	0.04
285	L0357	8	Val Rita-Harty Twp	Val Rita	775	288	8.5	23.0	37.2	69.67	187.47	18.32	0.89	0.13	0.34	0.00	0.01
286	L0359	1	Vaughan	Vaughan	323,500	129,668	9.8	24.6	40.1	45.56	113.67	5.22	0.76	0.34	0.85	0.01	0.03
287	L0453	FN	Wahta Mohawk FN	Bala	303	35	2.5	21.4	11.6	64.11	555.03	0.00	0.00	0.75	6.46	0.10	0.89
288	L0362	6	Wainfleet Twp	Wainfleet	6,360	3,134	7.8	15.8	49.3	62.05	125.93	4.27	2.02	0.56	1.13	0.04	0.08
289	L0364	5	Wasaga Beach	Wasaga Beach	18,615	11,000	5.7	9.6	59.1	31.08	52.60	2.54	0.11	0.55	0.93	0.03	0.04
290	L0423	FN	Wasauksing FN	Parry Sound	392	384	66.8	68.2	98.0	41.95	42.82	4.40	0.00	33.42	34.12	1.20	1.23
291	L0365	2	Waterloo City	Waterloo	135,596	60,362	12.4	27.9	44.5	40.00	89.85	4.03	0.56	0.28	0.63	0.01	0.03
292	L0270	3	Waterloo Region	Baden	64,504	16,222	6.4	25.3	25.1	40.14	159.59	2.18	1.38	0.35	1.37	0.03	0.11
293	L0178	7	Wawa	Wawa	2,965	1,291	16.8	38.5	43.5	72.61	166.77	5.36	1.35	0.64	1.47	0.15	0.35
294	L0366	3	Welland	Welland	50,631	14,689	4.8	16.6	29.0	40.63	140.06	4.50	1.52	0.14	0.48	0.01	0.05
295	L0367	3	Wellington County	Fergus	95,010	28,021	10.4	35.3	29.5	64.24	217.83	4.52	1.29	0.49	1.66	0.03	0.11
296	L0336	6	West Grey Twp	Durham	12,286	1,990	3.7	23.0	16.2	24.35	150.33	2.06	0.17	0.17	1.05	0.03	0.20
297	L0370	6	West Lincoln Twp	Smithville	13,867	1,662	6.0	49.9	12.0	27.78	231.77	1.92	0.85	0.15	1.29	0.02	0.15
298	L0371	6	West Nipissing	Sturgeon Falls	14,149	3,522	3.2	12.9	24.9	34.71	139.44	2.59	0.97	0.05	0.18	0.00	0.00
299	L0372	6	West Perth	Mitchell	8,919	1,729	6.3	32.6	19.4	25.53	131.69	2.69	0.00	0.33	1.68	0.04	0.20
300	L0374	8	Westport	Westport	594	424	11.8	16.5	71.4	61.26	85.82	5.60	1.23	0.65	0.92	0.06	0.08
				Average of ALL libraries' values==>	43,253	14,639	7.6	18.6	47.5	62.28	167.57	4.82	2.44	0.74	1.76	0.06	0.13
				Median of ALL libraries' values==>	5,338	2,029	6.8	16.5	38.5	48.22	126.97	3.44	0.88	0.32	0.86	0.02	0.06

Table 2: Key Ratios for Ontario Public Libraries, 2015 (continued)

Library Number	Band	Library Name	City	Population (Resident)	Active Cardholders	Circs per capita	Circs per cardholder	Cardholders as a % of Population	Total Operating	Total Operating	General Materials	Electronic Materials	Program Attendance	Program Attendance	Programs Offered	Programs Offered	
									Expenditures per capita	Expenditures per cardholder	Expenditures per capita	Expenditures per cardholder	per capita	per cardholder	per capita	per cardholder	
301	L0027	2	Whitby	Whitby	133,400	41,456	11.4	36.8	31.1	42.78	137.66	2.06	2.43	0.23	0.74	0.01	0.04
302	L0148	4	Whitchurch-Stouffville	Stouffville	47,400	23,393	5.4	10.9	49.4	39.69	80.42	3.72	1.83	0.60	1.21	0.03	0.06
303	L0375	8	White River Twp	White River	607	253	9.3	22.4	41.7	81.84	196.36	10.33	9.60	1.23	2.94	0.12	0.29
304	L0425	FN	Whitefish River FN	Birch Island	401	50	3.2	26.0	12.5	52.39	420.20	0.00	0.00	0.00	0.00	0.00	0.00
305	L0377	8	Whitestone-Hagerman Memorial	Dunchurch	1,030	1,330	23.3	18.1	129.1	112.15	86.85	3.89	5.78	1.19	0.92	0.06	0.05
306	L0482	6	Whitewater Region	Beachburg	5,754	1,090	2.7	14.2	18.9	15.06	79.49	2.90	0.00	0.02	0.13	0.00	0.02
307	L0426	FN	Wikwemikong FN	Wikwemikong	3,150	1,089	0.3	1.0	34.6	27.30	78.96	0.89	0.29	0.48	1.39	0.05	0.15
308	L0378	2	Windsor	Windsor	210,891	43,903	5.4	25.8	20.8	40.65	195.24	2.12	2.14	0.16	0.76	0.01	0.04
309	L0380	8	Wollaston and Limerick Union	Coe Hill	1,004	450	9.5	21.2	44.8	42.00	93.71	0.53	2.30	0.75	1.67	0.00	0.01
310	L0379	4	Woodstock	Woodstock	37,754	14,988	13.9	35.1	39.7	65.62	165.30	4.54	3.05	0.59	1.48	0.03	0.07
Average of ALL libraries' values==>					42,547	14,404	7.5	18.5	47.4	62.0	166.8	4.8	2.4	0.7	1.7	0.1	0.1
Median of ALL libraries' values==>					5,339	2,034	6.8	16.5	38.5	48.3	127.3	3.4	0.9	0.3	0.9	0.0	0.1



## Rank Order Tables

The next four tables (3-6) are in the form of ranking libraries by the four variables. The first two are circulations per capita and circulations per active borrower. We know from Table 1 and related charts of those data that circulations per capita are going down. This measure is about as traditional as one can get...right after counts of the resident population a public library serves. Table 1 has the aggregate ranks by bands of circulations per capita. We also know that cardholders are declining so fewer people have cards to check materials out. Are those fewer cardholders checking out more or fewer materials per person? This number, then, seems important, too, and we have one look at it in Table 3 where we again examine this variable by ranking libraries using it within the various bands. Table 4 ranks circulations per active cardholder. This calculation is just a bit more complicated than the circulations per capita. The number of active cardholders has generally been declining for the decade as we saw in Table 1 and related charts. Residents without cards do not check materials out so by looking at the circulations by active cardholders we get another view of the data that is a bit keener picture than the older measure. It is another view to weigh in our attempts to understand what is going on.

The next two tables rank libraries by expenditure ratios. Table 5 uses expenditures per capita to rank the libraries and Table 6 uses electronic materials expenditures per active cardholder. We know from Table 1 and from the related charts on pages 32 and 33 that reported data show that the libraries' aggregate expenditures for electronic materials have increased while the portion of that increase spent on electronic materials has gone up a good bit. Let's isolate that variable and rank libraries by it. The reader will note that some of the Bands of smaller libraries show \$0 spent in this category.

Librarians have ranked libraries in almost all publications of library data. Balbi's 1835 work cited in the *Primer* ranked the great urban libraries in Europe by volumes reportedly held by the libraries. The Gerould Statistics began in the 1907/08 academic year and was the first year of a continuous collection effort continued and expanded to this day by the Association of Research Libraries. Its first typed version listed five variables from 14 US academic libraries in alphabetical order. A canvas of archives disclosed very shortly after copies of these data retyped in order by the volumes held. Other archival copies have handwritten notes on the original Gerould typescripts. Ranking is one use of library data and maybe the oldest.

Table 3: Rank Order Table: Circulations per capita, by bands, Ontario Public Libraries, 2015

Rank	Annual Circulations per capita	Library Number	Library Name	City	Population (Resident)	Total Annual Direct Circulations
<b>Band 1 (Resident population greater than 250,000)</b>						
1	13.1	L0099	Markham	Markham	349,884	4,581,729
2	11.9	L0481	Ottawa	Ottawa	960,754	11,425,711
3	11.8	L0474	Hamilton	Hamilton	550,700	6,473,602
4	11.5	L0353	Toronto	Toronto	2,826,498	32,505,963
5	10.1	L0245	London	London	381,310	3,869,642
6	9.8	L0359	Vaughan	Vaughan	323,500	3,186,341
7	8.7	L0041	Brampton	Brampton	580,600	5,062,877
8	8.4	L0206	Mississauga	Mississauga	764,000	6,385,679
<b>Band 2 (Resident population greater than 100,000 and fewer than 250,001)</b>						
1	16.7	L0389	Guelph	Guelph	126,250	2,104,370
2	12.4	L0365	Waterloo City	Waterloo	135,596	1,682,515
3	12.2	L0434	Milton	Milton	103,700	1,268,998
4	11.4	L0027	Whitby	Whitby	133,400	1,526,026
5	11.4	L0043	Barrie	Barrie	143,634	1,634,521
6	11.3	L0037	Burlington	Burlington	175,103	1,970,030
7	10.7	L0294	Richmond Hill	Richmond Hill	206,850	2,213,713
8	10.7	L0253	Oshawa	Oshawa	162,500	1,736,752
9	10.4	L0247	Oakville	Oakville	190,100	1,977,448
10	10.2	L0127	Kitchener	Kitchener	239,900	2,437,939
11	9.2	L0213	Kingston-Frontenac County	Kingston	153,992	1,423,791
12	8.0	L0025	St. Catharines	St. Catharines	131,400	1,055,744
13	8.0	L0104	Cambridge	Cambridge	135,000	1,082,600
14	7.8	L0121	Chatham-Kent	Chatham	104,075	813,429
15	7.0	L0349	Thunder Bay	Thunder Bay	108,359	754,343
16	6.8	L0032	Ajax	Ajax	121,900	824,062
17	6.5	L0239	Lambton County	Wyoming	126,199	823,771
18	5.6	L0153	Essex County	Essex	176,642	985,239
19	5.4	L0378	Windsor	Windsor	210,891	1,133,269
20	5.2	L0470	Greater Sudbury	Greater Sudbury	161,900	837,113
<b>Band 3 (Resident population greater than 50,000 and fewer than 100,001)</b>						
1	12.5	L0340	Pickering	Pickering	95,593	1,198,072
2	11.7	L0033	Aurora	Aurora	56,200	657,401
3	10.4	L0367	Wellington County	Fergus	95,010	987,973
4	10.4	L0326	Halton Hills	Georgetown	57,551	598,327
5	9.2	L0257	Oxford County	Woodstock	65,471	600,735
6	8.0	L0089	Bruce County	Town of Saugeen Shores	61,119	489,711
7	7.2	L0222	Niagara Falls	Niagara Falls	82,997	599,173
8	6.9	L0113	Clarington, Municipality of	Bowmanville	91,726	634,709
9	6.7	L0039	Brantford	Brantford	97,862	653,379
10	6.4	L0188	Huron County	Clinton	57,579	366,555
11	6.4	L0270	Waterloo Region	Baden	64,504	409,941
12	6.3	L0227	North Bay	North Bay	53,651	335,402
13	6.1	L0476	Kawartha Lakes, City of	Lindsay	73,214	449,291
14	5.9	L0019	Newmarket	Newmarket	86,071	508,008
15	5.8	L0268	Peterborough	Peterborough	78,700	455,692
16	5.3	L0191	Sault Ste. Marie	Sault Ste. Marie	75,140	400,327
17	5.2	L0205	Middlesex County Library	Strathroy	76,004	392,917
18	5.0	L0049	Caledon	Caledon East	72,040	361,351
19	4.8	L0366	Welland	Welland	50,631	243,332
20	4.4	L0480	Norfolk County	Simcoe	63,175	275,415
21	3.6	L0319	Stormont, Dundas & Glengarry County	Cornwall	64,824	234,630

Table 3: Rank Order Table: Circulations per capita, by bands, Ontario Public Libraries, 2015 (continued)

Rank	Annual Circulations per capita	Library Number	Library Name	City	Population (Resident)	Total Annual Direct Circulations
<i>Band 4 (Resident population greater than 30,000 and fewer than 50,001)</i>						
1	13.9	L0379	Woodstock	Woodstock	37,754	525,323
2	12.6	L0207	New Tecumseth	Alliston	33,998	428,223
3	10.8	L0315	St. Thomas	St. Thomas	37,905	410,768
4	10.1	L0023	Orillia	Orillia	30,797	311,389
5	10.0	L0269	Stratford	Stratford	30,886	307,775
6	8.5	L0040	Brant County	Paris	31,030	264,564
7	8.4	L0256	Owen Sound & North Grey Union	Owen Sound	35,208	297,052
8	7.8	L0473	Haldimand County	Dunnville	44,876	351,385
9	7.5	L0086	Bradford West Gwillimbury Town	Bradford	34,266	255,989
10	7.0	L0081	Belleville	Belleville	49,454	348,310
11	6.8	L0277	Innisfil	Innisfil	35,717	244,317
12	6.0	L0285	Quinte West	Trenton	43,086	258,889
13	5.8	L0047	Cornwall	Cornwall	46,340	268,535
14	5.7	L0072	Georgina	Keswick	49,700	283,150
15	5.4	L0148	Whitchurch-Stouffville	Stouffville	47,400	256,103
16	4.8	L0151	Elgin County	St. Thomas	49,556	240,132
17	4.3	L0243	Lennox and Addington County	Napanee	40,069	171,628
18	2.0	L0351	Timmins	Timmins	43,165	86,783
<i>Band 5 (Resident population greater than 15,000 and fewer than 30,001)</i>						
1	12.6	L0262	Pelham	Fonthill	15,626	196,793
2	12.3	L0116	Cobourg	Cobourg	18,519	227,622
3	12.1	L0066	Collingwood	Collingwood	20,197	243,640
4	12.0	L0433	Lincoln	Beamsville	20,106	240,460
5	9.9	L0485	Kenora City	Kenora	15,348	152,437
6	9.8	L0499	Port Hope	Port Hope	16,214	158,234
7	9.7	L0024	Port Colborne	Port Colborne	18,003	174,213
8	9.0	L0387	Essa	Angus	18,505	166,466
9	9.0	L0267	Petawawa	Petawawa	15,973	143,363
10	8.5	L0169	Grimsby	Grimsby	25,325	214,926
11	8.4	L0356	Uxbridge Twp	Uxbridge	20,623	173,648
12	8.4	L0185	Huntsville	Huntsville	19,056	159,802
13	8.0	L0304	Scugog Memorial	Port Perry	18,575	148,885
14	7.7	L0223	Niagara-on-the-Lake	Niagara-on-the-Lake	15,400	118,092
15	7.4	L0259	Springwater Twp	Midhurst	18,223	135,213
16	7.4	L0309	Selwyn	Bridgenorth	17,419	128,854
17	7.3	L0088	Brockville	Brockville	21,870	160,530
18	7.2	L0125	King Twp	King City	19,899	144,160
19	7.2	L0022	Midland	Midland	16,572	120,000
20	6.8	L0276	Prince Edward County	Pictou	25,258	170,804
21	6.5	L0156	Fort Erie	Fort Erie	29,960	195,688
22	6.3	L0228	North Grenville Twp	Kemptville	15,085	95,323
23	6.2	L0074	Orangeville	Orangeville	28,734	176,899
24	6.1	L0147	East Gwillimbury	Holland Landing	20,498	125,512
25	6.0	L0264	Perth and District Union	Perth	19,380	116,719
26	5.7	L0364	Wasaga Beach	Wasaga Beach	18,615	105,556
27	5.6	L0300	Russell	Russell	15,250	85,616
28	4.8	L0348	Thorold	Thorold	17,931	86,439
29	2.0	L0120	Clarence-Rockland	Rockland	28,823	56,595

Table 3: Rank Order Table: Circulations per capita, by bands, Ontario Public Libraries, 2015 (continued)

Rank	Annual Circulations per capita	Library Number	Library Name	City	Population (Resident)	Total Annual Direct Circulations
<b>Band 6 (Resident population greater than 5,000 and fewer than 15,001)</b>						
1	22.7	L0115	Clearview Twp	Stayner	13,734	312,269
2	17.5	L0271	St. Marys Public Library	St. Marys	6,165	107,716
3	15.0	L0065	The Blue Mountains	Thornbury	6,453	96,713
4	14.0	L0263	Penetanguishene	Penetanguishene	9,111	127,120
5	13.7	L0071	Pembroke	Pembroke	10,867	149,128
6	12.7	L0048	Carleton Place	Carleton Place	10,320	131,273
7	12.7	L0014	Arnprior	Arnprior	9,153	115,891
8	11.8	L0075	Shelburne	Shelburne	6,941	81,860
9	11.2	L0171	Haliburton County	Haliburton	14,305	160,495
10	11.0	L0157	Fort Frances	Fort Frances	7,955	87,558
11	10.6	L0466	Brighton Public Library Board	Brighton	10,928	115,669
12	10.5	L0119	Cramahe Twp	Colborne	5,298	55,479
13	10.1	L0210	Mississippi Mills	Almonte	12,385	125,181
14	10.1	L0292	Renfrew	Renfrew	8,220	83,081
15	10.0	L0174	Hanover	Hanover	7,490	74,795
16	9.9	L0095	Parry Sound	Parry Sound	6,191	61,013
17	9.3	L0070	Bracebridge	Bracebridge	14,941	138,353
18	8.5	L0168	Gravenhurst Public Library	Gravenhurst	12,055	102,892
19	8.5	L0138	Dryden	Dryden	7,617	64,835
20	8.4	L0498	Rideau Lakes Public Library	Elgin	9,050	75,994
21	8.2	L0231	North Perth	Monkton	12,631	103,707
22	8.1	L0052	Espanola	Espanola	5,364	43,328
23	8.0	L0031	Sioux Lookout	Sioux Lookout	5,336	42,634
24	7.9	L0273	Powassan & District Union Public Library	Powassan	5,840	45,901
25	7.8	L0362	Wainfleet Twp	Wainfleet	6,360	49,428
26	7.4	L0472	Grey Highlands	Flesherton	8,033	59,803
27	7.2	L0203	Meaford	Meaford	11,100	79,400
28	7.0	L0500	Trent Hills	Campbellford	12,604	88,273
29	6.9	L0117	Cochrane Public Library Board	Cochrane	5,340	36,775
30	6.8	L0209	Smiths Falls	Smiths Falls	8,978	60,898
31	6.5	L0477	Leeds and the Thousand Islands Twp	Lansdowne	9,277	60,203
32	6.3	L0372	West Perth	Mitchell	8,919	56,304
33	6.3	L0159	Trent Lakes	Buckhorn	5,105	32,093
34	6.2	L0265	Perth East	Milverton	9,882	61,486
35	6.2	L0180	Hearst Twp	Hearst	5,090	31,362
36	6.1	L0342	Tay Twp	Port McNicoll	9,376	57,279
37	6.0	L0370	West Lincoln Twp	Smithville	13,867	82,995
38	5.6	L0160	Gananoque	Gananoque	5,194	29,319
39	5.5	L0045	Cavan Monaghan Public Library Board, Township of	Millbrook	8,601	47,592
40	5.5	L1037	Temiskaming Shores	Haileybury	10,400	57,148
41	5.2	L0059	Hawkesbury	Hawkesbury	10,551	55,374
42	5.2	L0126	Kirkland Lake	Kirkland Lake	8,493	44,082
43	4.9	L0152	Elliot Lake	Elliot Lake	10,218	50,202
44	4.8	L0287	Ramara Twp	Brechin	8,110	38,954
45	4.6	L0165	Oliver Paipoonge	Murillo	5,174	23,619
46	4.4	L0212	Muskoka Lakes Twp	Port Carling	6,707	29,697
47	4.4	L0255	Otonabee-South Monaghan Twp	Keene	6,660	29,251
48	4.3	L0487	Alnwick/Haldimand Twp	Grafton	6,279	27,140
49	4.2	L0080	Bonnechere Union	Eganville	5,544	23,448
50	4.2	L0004	Alfred & Plantagenet Twp	Lefavre	8,022	33,513
51	4.2	L0330	Lanark Highlands	Lanark	5,128	21,317
52	4.1	L0122	Kapuskasing	Kapuskasing	7,083	29,221
53	3.9	L0108	Champlain Twp	Vankleek Hill	7,610	29,687
54	3.7	L0038	Brock Twp	Beaverton	11,700	43,830
55	3.7	L0336	West Grey Twp	Durham	12,286	45,791
56	3.6	L0091	La Nation	St-Isidore	11,668	42,394
57	3.5	L0258	Severn Township Library	Coldwater	11,336	39,796
58	3.2	L0371	West Nipissing	Sturgeon Falls	14,149	45,514
59	2.9	L0467	Edwardsburgh/Cardinal Twp	Spencerville	6,959	19,931
60	2.7	L0010	Augusta Twp	Brockville	7,430	20,003
61	2.7	L0482	Whitewater Region	Beachburg	5,754	15,490
62	2.5	L0332	Southgate Twp.	Dundalk	7,190	17,698
63	1.9	L0469	Elizabethtown - Kitley	Addison	9,724	18,144
64	1.1	L0136	Douro-Dummer Twp	Douro	5,976	6,431

Table 3: Rank Order Table: Circulations per capita, by bands, Ontario Public Libraries, 2015 (continued)

Rank	Annual Circulations per capita	Library Number	Library Name	City	Population (Resident)	Total Annual Direct Circulations
<i>Band 7 (Resident population greater than 2,500 and fewer than 5,001)</i>						
1	31.1	L0339	Tyendinaga Twp	Shannonville	3,582	111,271
2	21.0	L0238	Lake of Bays Twp	Baysville	3,284	69,074
3	16.8	L0178	Wawa	Wawa	2,965	49,738
4	16.4	L0051	Deep River	Deep River	4,193	68,641
5	11.9	L0204	Merrickville-Wolford	Merrickville	2,850	33,923
6	9.9	L0325	French River	Noelville	2,547	25,239
7	9.9	L0011	Atikokan	Atikokan	2,596	25,692
8	8.8	L0318	Stirling-Rawdon	Stirling	4,978	43,755
9	7.4	L1036	Callander	Callander	3,864	28,593
10	7.3	L0278	Iroquois Falls	Iroquois Falls	4,106	30,006
11	6.9	L0090	Burk's Falls, Armour & Ryerson Union	Burk's Falls	2,973	20,611
12	6.4	L0196	Marathon	Marathon	3,353	21,569
13	6.2	L0496	Madawaska Valley Twp	Barry's Bay	3,794	23,350
14	5.9	L0471	Greenstone	Geraldton	4,467	26,338
15	5.8	L0058	Havelock-Belmont-Methuen Twp	Havelock	3,992	23,333
16	5.8	L0303	Sables-Spanish Rivers Twp	Massey	2,744	15,903
17	5.5	L0355	Tweed	Tweed	4,955	27,340
18	5.4	L0062	Bancroft Town	Bancroft	3,880	21,015
19	5.4	L0232	Northeastern Manitoulin and the Islands	Little Current On	2,706	14,545
20	5.4	L0274	Prescott	Prescott	4,284	22,988
21	4.7	L0463	Marmora and Lake Twp	Marmora	4,070	19,166
22	4.2	L0110	Centre Hastings	Madoc	4,543	19,146
23	4.2	L0429	Blind River	Blind River	3,575	14,895
24	4.1	L0290	Red Lake	Balmertown	4,670	19,146
25	3.9	L0002	Admaston/Bromley Twp	Douglas	2,622	10,256
26	3.3	L0107	Casselton	Casselton	3,129	10,445
27	3.3	L0475	Hastings Highlands Twp	Maynooth	4,170	13,717
28	3.3	L0321	Seguin Twp	Seguin	4,276	13,914
29	3.1	L0384	Laurentian Hills	Deep River	2,811	8,708
30	3.1	L0145	East Ferris	Astorville	4,766	14,752
31	2.6	L0448	Front of Yonge Twp	Mallorytown	2,752	7,251
32	2.1	L0016	Asphodel-Norwood	Norwood	4,041	8,661
33	1.9	L0018	Athens Twp	Athens	3,272	6,330
<i>Band 8 (Resident population fewer than 2,501)</i>						
1	28.6	L0131	Rainy River	Rainy River	642	18,385
2	23.3	L0377	Whitstone-Hagerman Memorial	Dunchurch	1,030	24,034
3	21.0	L0073	Grand Valley Library Board	Grand Valley	2,450	51,560
4	21.0	L0179	Head, Clara & Maria	Stonecliffe	201	4,225
5	20.5	L0322	Britt Area	Britt	940	19,302
6	16.5	L0134	Mattawa	Mattawa	2,114	34,925
7	14.8	L0054	Englehart	Englehart	1,257	18,653
8	14.4	L0050	Dorion Twp	Dorion	340	4,891
9	14.3	L0098	Emo Twp	Emo	1,056	15,051
10	14.0	L0307	Simcoe County Co-operative	Midhurst	742	10,424
11	13.7	L0017	Assiginack Twp	Manitoulin Island	960	13,199
12	13.5	L0240	Larder Lake Public Library	Larder Lake	735	9,889
13	12.7	L0382	North Kawartha Twp	Apsley	2,126	26,946
14	12.3	L0162	Georgian Bay Twp	Honey Harbour	2,063	25,400
15	12.0	L0055	Fauquier-Strickland Twp	Fauquier	525	6,279
16	11.8	L0374	Westport	Westport	594	7,003
17	10.9	L0344	Terrace Bay Twp	Terrace Bay	1,365	14,841
18	10.4	L0211	Moonbeam Twp	Moonbeam	1,039	10,827
19	10.0	L0250	Opasatika	Opasatika	221	2,208
20	9.8	L0199	McGarry Twp	Virginiatown	586	5,753
21	9.8	L0102	Cobalt Twp	Cobalt	1,133	11,100
22	9.8	L0021	Temagami	Temagami	820	8,021
23	9.5	L0380	Wollaston and Limerick Union	Coe Hill	1,004	9,547
24	9.4	L0385	Killaloe, Hagarty & Richards Twp	Killaloe	2,229	20,934
25	9.3	L0375	White River Twp	White River	607	5,670

Table 3: Rank Order Table: Circulations per capita, by bands, Ontario Public Libraries, 2015 (continued)

Rank	Annual Circulations per capita	Library Number	Library Name	City	Population (Resident)	Total Annual Direct Circulations
<i>Band 8 (Resident population fewer than 2,501) (continued)</i>						
26	9.3	L0183	Hilton Union	Hilton Beach	417	3,882
27	9.3	L0301	Schreiber Twp	Schreiber	1,126	10,430
28	9.0	L0314	St. Joseph Twp	Richards Landing	1,201	10,750
29	8.7	L0323	Deseronto	Deseronto	1,835	16,000
30	8.5	L0357	Val Rita-Harty Twp	Val Rita	775	6,623
31	8.5	L0044	Bruce Mines & Plummer Additional Union	Bruce Mines	1,216	10,284
32	8.4	L0082	Billings Twp	Kagawong	507	4,281
33	8.2	L0497	Loring, Port Loring and District Local Services Board	Port Loring	800	6,576
34	8.1	L0020	Mattice-Val Cote Twp	Mattice	661	5,350
35	8.1	L0109	Central Manitoulin Twp	Mindemoya	1,958	15,795
36	7.9	L0291	Red Rock Twp	Red Rock	942	7,410
37	7.5	L0195	Manitouwadge	Manitouwadge	1,818	13,564
38	7.4	L0308	Sioux Narrows Nestor Falls Twp	Sioux Narrows	720	5,339
39	7.0	L0346	Thessalon	Thessalon	1,280	9,021
40	7.0	L0123	Kearney & Area	Kearney	841	5,916
41	7.0	L0194	Magnetawan Twp	Magnetawan	1,165	8,154
42	6.9	L0302	Gore Bay Union	Gore Bay	1,684	11,536
43	6.7	L0343	Tehkummah Twp	Tehkummah	406	2,705
44	6.5	L0225	Nipigon Twp	Nipigon	1,631	10,597
45	6.3	L0284	Sundridge-Strong Union	Sundridge	2,234	14,120
46	6.2	L0327	Ignace	Ignace	1,202	7,481
47	6.0	L0430	Cartier	Cartier	300	1,800
48	6.0	L0005	Addington Highlands Twp	Flinton	1,755	10,443
49	5.0	L0311	South Algonquin Twp	Whitney	1,211	6,092
50	5.0	L0084	Bonfield	Bonfield	2,016	10,115
51	4.9	L0312	South River-Machar Union	South River	1,849	9,076
52	4.9	L0381	Spanish Twp	Spanish	696	3,378
53	4.8	L0313	St. Charles	St. Charles	1,282	6,170
54	4.6	L0280	James Twp	Elk Lake	424	1,943
55	4.5	L0013	Armstrong Twp	Earlton	1,216	5,452
56	4.4	L0447	Markstay-Warren	Markstay	2,366	10,464
57	4.1	L0427	Dubreuilville Twp	Dubreuilville	635	2,600
58	4.0	L0083	Black River-Matheson Twp	Matheson	2,332	9,373
59	3.8	L0184	Hornepayne Twp	Hornepayne	1,050	3,961
60	3.6	L0144	Ear Falls Twp	Ear Falls	1,026	3,742
61	3.2	L0200	McKellar Twp	McKellar	1,012	3,188
62	2.9	L0202	Perry Twp	Emsdale	1,787	5,218
63	2.6	L0478	Greater Madawaska Twp	Calabogie	2,485	6,392
64	2.1	L0450	Tudor & Cashel Twp	Gilmour	586	1,224
65	1.8	L0112	Chapleau Twp	Chapleau	2,116	3,875
66	1.7	L0310	Smooth Rock Falls	Smooth Rock Falls	1,376	2,400
67	1.5	L0106	Carlow/Mayo Public Library	Bancroft	895	1,300
68	1.0	L0261	Phelps	Redbridge	1,500	1,503
69	0.9	L0189	Huron Shores	Iron Bridge	1,723	1,609
70	0.9	L0465	Gogama LSB	Gogama	475	410
71	0.8	L0275	Prince Twp Public Library	Prince Township	1,031	791

Table 3: Rank Order Table: Circulations per capita, by bands, Ontario Public Libraries, 2015 (continued)

Rank	Annual Circulations per capita	Library Number	Library Name	City	Population (Resident)	Total Annual Direct Circulations
<i>First Nations' Libraries</i>						
1	66.8	L0423	Wasauksing FN	Parry Sound	392	26,204
2	26.7	L0396	Chippewas of Georgina Island FN	Sutton West	203	5,430
3	18.8	L0464	Michipicoten FN	Wawa	65	1,225
4	12.5	L0439	Temagami FN	Bear Island	239	2,984
5	10.2	L0418	Shawanaga FN	Nobel	182	1,858
6	10.2	L0393	Beausoleil First Nation Public Library	Christian Island	629	6,398
7	9.4	L0398	Chippewas of Rama FN	Rama	715	6,700
8	8.9	L0419	Sheshegwaning FN	Sheshegwaning	112	1,000
9	8.8	L0428	Mattagami FN	Gogama	170	1,500
10	7.7	L0460	Henvey Inlet FN	Pickerel	189	1,450
11	7.5	L0459	Mississauga FN	Blind River	392	2,950
12	6.9	L0406	M'Chigeeng FN	M'Chigeeng First Nation	934	6,440
13	6.4	L0403	Dokis FN	Via Monetville	176	1,120
14	5.4	L0456	Ojibways of the Pic River FN	Heron Bay	528	2,860
15	4.0	L0394	Big Grassy FN	Morson	250	989
16	3.2	L0425	Whitefish River FN	Birch Island	401	1,300
17	3.2	L0446	Rainy River FN	Emo	437	1,386
18	3.2	L0390	Alderville FN	Alderville	311	985
19	2.8	L0411	Chippewas of Nawash FN	Warton	710	2,000
20	2.5	L0453	Wahta Mohawk FN	Bala	303	750
21	2.0	L1084	Sachigo Lake FN	Sachigo Lake	497	996
22	2.0	L0413	Ojibways of Onigaming FN	Nestor Falls	465	924
23	1.8	L0407	Magnetawan FN	Britt	75	135
24	1.7	L0415	Saugeen FN	Southampton	1,890	3,213
25	1.7	L0391	Algonquins of Pikwakanagan FN	Golden Lake	464	785
26	1.1	L0420	Six Nations FN	Ohswegen	12,606	13,428
27	1.1	L0402	Curve Lake FN	Curve Lake, ON	779	828
28	1.0	L0440	Mississaugas of Scugog Island FN	Port Perry	48	50
29	0.9	L0416	Seine River FN	Seine River FN	344	308
30	0.8	L0424	Atikameksheng Anishnawbek Band No. 6 FN	Whitefish First Nation	377	300
31	0.8	L0404	Garden River FN	Garden River	1,222	965
32	0.8	L0409	Naotkamegwanning FN	Naotkamegwanning	747	580
33	0.7	L0438	Iskatewizaagegan No. 39 FN	Shoal Lake	319	225
34	0.7	L0408	Mohawks of Akwesasne FN	Cornwall	9,601	6,501
35	0.6	L0417	Serpent River FN	Cutler	359	220
36	0.6	L0405	Mohawks of the Bay of Quinte FN	Tyendinaga Mohawk Territory	2,160	1,307
37	0.5	L0412	Nipissing FN	Garden Village	956	492
38	0.5	L0431	Delaware FN	Thamesville	235	115
39	0.5	L0422	Thessalon FN	Thessalon	106	50
40	0.3	L0426	Wikwemikong FN	Wikwemikong	3,150	1,080
41	0.3	L0462	Bkejwanong FN	Wallaceburg	2,326	700
42	0.2	L0397	Chippewas of Kettle & Stony Point FN	Kettle and Stony Point First Na	1,328	229
43	0.2	L0410	New Credit FN	Hagersville	941	148
44	0.1	L0432	Sagamok Anishnawbek FN	Massey	1,567	198
45	0.1	L0400	Chippewas of the Thames FN	Muncey	971	103
46	0.0	L1035	Aundeck-Omni-Kaning FN	Little Current	365	16

Table 4: Rank Order Table: Circulations per active library cardholder, Ontario Public Libraries, 2015

Rank	Annual Circulations per cardholder	Library Number	Library Name	City	Active Cardholders	Population (Resident)	Total Annual Direct Circulations
<b>Band 1 (Resident population greater than 250,000)</b>							
1	42.1	L0474	Hamilton	Hamilton	153,796	550,700	6,473,602
2	38.8	L0481	Ottawa	Ottawa	294,323	960,754	11,425,711
3	35.6	L0353	Toronto	Toronto	913,443	2,826,498	32,505,963
4	33.4	L0041	Brampton	Brampton	151,720	580,600	5,062,877
5	30.2	L0206	Mississauga	Mississauga	211,655	764,000	6,385,679
6	30.1	L0099	Markham	Markham	152,298	349,884	4,581,729
7	27.0	L0245	London	London	143,102	381,310	3,869,642
8	24.6	L0359	Vaughan	Vaughan	129,668	323,500	3,186,341
<b>Band 2 (Resident population greater than 100,000 and fewer than 250,001)</b>							
1	43.0	L0043	Barrie	Barrie	38,021	143,634	1,634,521
2	38.9	L0294	Richmond Hill	Richmond Hill	56,948	206,850	2,213,713
3	36.8	L0027	Whitby	Whitby	41,456	133,400	1,526,026
4	36.7	L0389	Guelph	Guelph	57,282	126,250	2,104,370
5	31.5	L0153	Essex County	Essex	31,246	176,642	985,239
6	30.3	L0037	Burlington	Burlington	65,058	175,103	1,970,030
7	29.4	L0253	Oshawa	Oshawa	59,129	162,500	1,736,752
8	28.9	L0121	Chatham-Kent	Chatham	28,181	104,075	813,429
9	27.9	L0365	Waterloo City	Waterloo	60,362	135,596	1,682,515
10	27.6	L0127	Kitchener	Kitchener	88,241	239,900	2,437,939
11	27.2	L0349	Thunder Bay	Thunder Bay	27,688	108,359	754,343
12	26.7	L0247	Oakville	Oakville	74,120	190,100	1,977,448
13	25.8	L0378	Windsor	Windsor	43,903	210,891	1,133,269
14	25.4	L0213	Kingston-Frontenac County	Kingston	55,955	153,992	1,423,791
15	24.6	L0104	Cambridge	Cambridge	44,059	135,000	1,082,600
16	24.2	L0239	Lambton County	Wyoming	33,980	126,199	823,771
17	23.1	L0032	Ajax	Ajax	35,702	121,900	824,062
18	21.8	L0434	Milton	Milton	58,128	103,700	1,268,998
19	17.5	L0025	St. Catharines	St. Catharines	60,440	131,400	1,055,744
20	9.7	L0470	Greater Sudbury	Greater Sudbury	86,335	161,900	837,113
<b>Band 3 (Resident population greater than 50,000 and fewer than 100,001)</b>							
1	60.6	L0039	Brantford	Brantford	10,783	97,862	653,379
2	35.3	L0367	Wellington County	Fergus	28,021	95,010	987,973
3	34.1	L0257	Oxford County	Woodstock	17,607	65,471	600,735
4	33.9	L0326	Halton Hills	Georgetown	17,627	57,551	598,327
5	29.2	L0476	Kawartha Lakes, City of	Lindsay	15,389	73,214	449,291
6	28.1	L0340	Pickering	Pickering	42,625	95,593	1,198,072
7	27.8	L0268	Peterborough	Peterborough	16,378	78,700	455,692
8	26.8	L0319	Stormont, Dundas & Glengarry County	Cornwall	8,746	64,824	234,630
9	25.3	L0270	Waterloo Region	Baden	16,222	64,504	409,941
10	23.8	L0033	Aurora	Aurora	27,595	56,200	657,401
11	23.1	L0049	Caledon	Caledon East	15,670	72,040	361,351
12	21.3	L0019	Newmarket	Newmarket	23,862	86,071	508,008
13	21.2	L0191	Sault Ste. Marie	Sault Ste. Marie	18,912	75,140	400,327
14	19.9	L0188	Huron County	Clinton	18,422	57,579	366,555
15	19.5	L0089	Bruce County	Town of Saugeen S	25,098	61,119	489,711
16	17.9	L0205	Middlesex County Library	Strathroy	21,945	76,004	392,917
17	16.6	L0222	Niagara Falls	Niagara Falls	36,074	82,997	599,173
18	16.6	L0366	Wellsand	Wellsand	14,689	50,631	243,332
19	16.0	L0480	Norfolk County	Simcoe	17,221	63,175	275,415
20	14.6	L0113	Clarington, Municipality of	Bowmanville	43,432	91,726	634,709
21	7.6	L0227	North Bay	North Bay	43,990	53,651	335,402



Table 4: Rank Order Table: Circulations per active library cardholder, Ontario Public Libraries, 2015

Rank	Annual Circulations per cardholder	Library Number	Library Name	City	Active Cardholders	Population (Resident)	Total Annual Direct Circulations
<b>Band 4 (Resident population greater than 30,000 and fewer than 50,001)</b>							
1	43.8	L0207	New Tecumseth	Alliston	9,783	33,998	428,223
2	35.3	L0269	Stratford	Stratford	8,727	30,886	307,775
3	35.1	L0379	Woodstock	Woodstock	14,988	37,754	525,323
4	31.8	L0315	St. Thomas	St. Thomas	12,926	37,905	410,768
5	24.9	L0256	Owen Sound & North Grey Union	Owen Sound	11,946	35,208	297,052
6	24.1	L0023	Orillia	Orillia	12,918	30,797	311,389
7	22.0	L0047	Cornwall	Cornwall	12,227	46,340	268,535
8	21.9	L0040	Brant County	Paris	12,064	31,030	264,564
9	21.4	L0473	Haldimand County	Dunnville	16,400	44,876	351,385
10	19.6	L0072	Georgina	Keswick	14,429	49,700	283,150
11	17.6	L0243	Lennox and Addington County	Napanee	9,732	40,069	171,628
12	17.1	L0151	Elgin County	St. Thomas	14,049	49,556	240,132
13	14.4	L0081	Belleville	Belleville	24,211	49,454	348,310
14	13.9	L0285	Quinte West	Trenton	18,622	43,086	258,889
15	12.3	L0086	Bradford West Gwillimbury Town	Bradford	20,766	34,266	255,989
16	11.1	L0277	Innisfil	Innisfil	22,017	35,717	244,317
17	10.9	L0148	Whitchurch-Stouffville	Stouffville	23,393	47,400	256,103
18	6.9	L0351	Timmins	Timmins	12,577	43,165	86,783
<b>Band 5 (Resident population greater than 15,000 and fewer than 30,001)</b>							
1	41.4	L0387	Essa	Angus	4,019	18,505	166,466
2	33.1	L0433	Lincoln	Beamsville	7,254	20,106	240,460
3	28.8	L0485	Kenora City	Kenora	5,284	15,348	152,437
4	27.3	L0169	Grimsby	Grimsby	7,870	25,325	214,926
5	25.7	L0259	Springwater Twp	Midhurst	5,270	18,223	135,213
6	24.9	L0066	Collingwood	Collingwood	9,774	20,197	243,640
7	24.9	L0309	Selwyn	Bridgenorth	5,174	17,419	128,854
8	24.6	L0262	Pelham	Fonthill	8,001	15,626	196,793
9	21.8	L0116	Cobourg	Cobourg	10,426	18,519	227,622
10	21.6	L0074	Orangeville	Orangeville	8,199	28,734	176,899
11	21.0	L0156	Fort Erie	Fort Erie	9,300	29,960	195,688
12	20.3	L0276	Prince Edward County	Picton	8,396	25,258	170,804
13	20.2	L0088	Brockville	Brockville	7,939	21,870	160,530
14	19.6	L0024	Port Colborne	Port Colborne	8,873	18,003	174,213
15	19.4	L0147	East Gwillimbury	Holland Landing	6,474	20,498	125,512
16	18.3	L0348	Thorold	Thorold	4,711	17,931	86,439
17	17.6	L0304	Scugog Memorial	Port Perry	8,474	18,575	148,885
18	16.4	L0264	Perth and District Union	Perth	7,121	19,380	116,719
19	15.2	L0125	King Twp	King City	9,467	19,899	144,160
20	15.0	L0267	Petawawa	Petawawa	9,589	15,973	143,363
21	14.5	L0356	Uxbridge Twp	Uxbridge	11,995	20,623	173,648
22	14.3	L0300	Russell	Russell	5,971	15,250	85,616
23	14.0	L0228	North Grenville Twp	Kemptville	6,815	15,085	95,323
24	13.6	L0120	Clarence-Rockland	Rockland	4,168	28,823	56,595
25	11.4	L0185	Huntsville	Huntsville	13,973	19,056	159,802
26	10.7	L0499	Port Hope	Port Hope	14,753	16,214	158,234
27	9.6	L0364	Wasaga Beach	Wasaga Beach	11,000	18,615	105,556
28	9.0	L0223	Niagara-on-the-Lake	Niagara-on-the-Lake	13,116	15,400	118,092
29	8.1	L0022	Midland	Midland	14,772	16,572	120,000

Table 4: Rank Order Table: Circulations per active library cardholder, Ontario Public Libraries, 2015 (continued)

Rank	Annual Circulations per cardholder	Library Number	Library Name	City	Active Cardholders	Population (Resident)	Total Annual Direct Circulations
<i>Band 6 (Resident population greater than 5,000 and fewer than 15,001)</i>							
1	109.4	L0115	Clearview Twp	Stayner	2,855	13,734	312,269
2	53.0	L0265	Perth East	Milverton	1,161	9,882	61,486
3	49.9	L0370	West Lincoln Twp	Smithville	1,662	13,867	82,995
4	39.1	L0258	Severn Township Library	Coldwater	1,017	11,336	39,796
5	36.0	L0271	St. Marys Public Library	St. Marys	2,992	6,165	107,716
6	35.1	L0174	Hanover	Hanover	2,128	7,490	74,795
7	32.9	L0071	Pembroke	Pembroke	4,526	10,867	149,128
8	32.6	L0372	West Perth	Mitchell	1,729	8,919	96,304
9	31.5	L0231	North Perth	Monkton	3,295	12,631	103,707
10	30.6	L0500	Trent Hills	Campbellford	2,881	12,604	88,273
11	26.4	L0171	Haliburton County	Haliburton	6,087	14,305	160,495
12	26.0	L0065	The Blue Mountains	Thornbury	3,713	6,453	96,713
13	25.6	L0342	Tay Twp	Port McNicoll	2,240	9,376	57,279
14	25.5	L0467	Edwardsburgh/Cardinal Twp	Spencerville	781	6,959	19,931
15	24.1	L0014	Arnprior	Arnprior	4,810	9,153	115,891
16	23.8	L0273	Powassan & District Union Public Library	Powassan	1,925	5,840	45,901
17	23.3	L0157	Fort Frances	Fort Frances	3,759	7,955	87,558
18	23.1	L0263	Penetanguishene	Penetanguishene	5,514	9,111	127,120
19	23.0	L0336	West Grey Twp	Durham	1,990	12,286	45,791
20	22.1	L0138	Dryden	Dryden	2,938	7,617	64,835
21	21.5	L0119	Cramahe Twp	Colborne	2,579	5,298	55,479
22	21.2	L0108	Champlain Twp	Vankleek Hill	1,399	7,610	29,687
23	21.1	L0048	Carleton Place	Carleton Place	6,221	10,320	131,273
24	21.0	L0004	Alfred & Plantagenet Twp	Lefaivre	1,595	8,022	33,513
25	21.0	L0212	Muskoka Lakes Twp	Port Carling	1,417	6,707	29,697
26	19.9	L0203	Meaford	Meaford	3,982	11,100	79,400
27	19.6	L0031	Sioux Lookout	Sioux Lookout	2,171	5,336	42,634
28	19.3	L0168	Gravenhurst Public Library	Gravenhurst	5,332	12,055	102,892
29	18.9	L0287	Ramara Twp	Brechin	2,056	8,110	38,954
30	18.6	L0466	Brighton Public Library Board	Brighton	6,225	10,928	115,669
31	18.2	L0117	Cochrane Public Library Board	Cochrane	2,017	5,340	36,775
32	18.0	L0165	Oliver Paipoonge	Murillo	1,311	5,174	23,619
33	17.8	L0292	Renfrew	Renfrew	4,680	8,220	83,081
34	17.2	L0136	Douro-Dummer Twp	Douro	374	5,976	6,431
35	16.9	L0070	Bracebridge	Bracebridge	8,179	14,941	138,353
36	16.8	L1037	Temiskaming Shores	Haileybury	3,393	10,400	57,148
37	16.7	L0160	Gananoque	Gananoque	1,755	5,194	29,319
38	16.5	L0487	Alnwick/Haldimand Twp	Grafton	1,646	6,279	27,140
39	16.4	L0330	Lanark Highlands	Lanark	1,296	5,128	21,317
40	15.8	L0362	Wainfleet Twp	Wainfleet	3,134	6,360	49,428
41	14.3	L0038	Brock Twp	Beaverton	3,056	11,700	43,830
42	14.3	L0122	Kapuskasing	Kapuskasing	2,040	7,083	29,221
43	14.2	L0482	Whitewater Region	Beachburg	1,090	5,754	15,490
44	14.1	L0095	Parry Sound	Parry Sound	4,330	6,191	61,013
45	14.0	L0080	Bonnechere Union	Eganville	1,671	5,544	23,448
46	13.9	L0498	Rideau Lakes Public Library	Elgin	5,471	9,050	75,994
47	13.9	L0180	Hearst Twp	Hearst	2,262	5,090	31,362
48	13.6	L0477	Leeds and the Thousand Islands Twp	Lansdowne	4,419	9,277	60,203
49	13.5	L0210	Mississippi Mills	Almonte	9,279	12,385	125,181
50	13.4	L0209	Smiths Falls	Smiths Falls	4,536	8,978	60,898
51	13.3	L0152	Elliot Lake	Elliot Lake	3,787	10,218	50,202
52	12.9	L0371	West Nipissing	Sturgeon Falls	3,522	14,149	45,514
53	12.5	L0472	Grey Highlands	Flesherton	4,797	8,033	59,803
54	12.3	L0255	Otonabee-South Monaghan Twp	Keene	2,370	6,660	29,251
55	12.3	L0075	Shelburne	Shelburne	6,674	6,941	81,860
56	12.3	L0045	Cavan Monaghan Public Library Board, Township of	Millbrook	3,881	8,601	47,592
57	11.5	L0159	Trent Lakes	Buckhorn	2,797	5,105	32,093
58	11.1	L0091	La Nation	St-Isidore	3,809	11,668	42,394
59	11.0	L0469	Elizabethtown - Kitley	Addison	1,650	9,724	18,144
60	9.8	L0126	Kirkland Lake	Kirkland Lake	4,496	8,493	44,082
61	9.2	L0332	Southgate Twp.	Dundalk	1,930	7,190	17,698
62	8.9	L0052	Espanola	Espanola	4,846	5,364	43,328
63	8.3	L0010	Augusta Twp	Brockville	2,396	7,430	20,003
64	7.9	L0059	Hawkesbury	Hawkesbury	6,998	10,551	55,374

Table 4: Rank Order Table: Circulations per active library cardholder, Ontario Public Libraries, 2015 (continued)

Rank	Annual Circulations per cardholder	Library Number	Library Name	City	Active Cardholders	Population (Resident)	Total Annual Direct Circulations
<b>Band 7 (Resident population greater than 2,500 and fewer than 5,001)</b>							
1	40.7	L0339	Tyendinaga Twp	Shannonville	2,732	3,582	111,271
2	38.5	L0178	Wawa	Wawa	1,291	2,965	49,738
3	30.7	L0384	Laurentian Hills	Deep River	284	2,811	8,708
4	24.5	L0002	Admaston/Bromley Twp	Douglas	418	2,622	10,256
5	24.0	L0051	Deep River	Deep River	2,862	4,193	68,641
6	23.2	L1036	Callander	Callander	1,231	3,864	28,593
7	22.7	L0204	Merrickville-Wolford	Merrickville	1,497	2,850	33,923
8	21.0	L0196	Marathon	Marathon	1,025	3,353	21,569
9	15.6	L0278	Iroquois Falls	Iroquois Falls	1,924	4,106	30,006
10	15.6	L0448	Front of Yonge Twp	Mallorytown	465	2,752	7,251
11	15.5	L0232	Northeastern Manitoulin and the Islands	Little Current On	936	2,706	14,545
12	15.5	L0303	Sables-Spanish Rivers Twp	Massey	1,025	2,744	15,903
13	15.5	L0274	Prescott	Prescott	1,484	4,284	22,988
14	14.6	L0238	Lake of Bays Twp	Baysville	4,723	3,284	69,074
15	13.7	L0011	Atikokan	Atikokan	1,879	2,596	25,692
16	13.6	L0318	Stirling-Rawdon	Stirling	3,215	4,978	43,755
17	12.8	L0058	Havelock-Belmont-Methuen Twp	Havelock	1,826	3,992	23,333
18	12.7	L0496	Madawaska Valley Twp	Barry's Bay	1,840	3,794	23,350
19	12.4	L0090	Burk's Falls, Armour & Ryerson Union	Burk's Falls	1,667	2,973	20,611
20	11.9	L0018	Athens Twp	Athens	531	3,272	6,330
21	11.4	L0110	Centre Hastings	Madoc	1,680	4,543	19,146
22	11.4	L0016	Asphodel-Norwood	Norwood	763	4,041	8,661
23	11.3	L0471	Greenstone	Geraldton	2,326	4,467	26,338
24	10.5	L0107	Casselman	Casselman	996	3,129	10,445
25	10.1	L0325	French River	Noelville	2,501	2,547	25,239
26	9.4	L0290	Red Lake	Balmertown	2,041	4,670	19,146
27	9.3	L0321	Seguin Twp	Seguin	1,495	4,276	13,914
28	8.9	L0463	Marmora and Lake Twp	Marmora	2,146	4,070	19,166
29	8.8	L0355	Tweed	Tweed	3,109	4,955	27,340
30	8.4	L0429	Blind River	Blind River	1,783	3,575	14,895
31	7.9	L0145	East Ferris	Astorville	1,865	4,766	14,752
32	7.4	L0475	Hastings Highlands Twp	Maynooth	1,863	4,170	13,717
33	6.4	L0062	Bancroft Town	Bancroft	3,305	3,880	21,015
<b>Band 8 (Resident population fewer than 2,501)</b>							
1	66.1	L0322	Britt Area	Britt	292	940	19,302
2	31.0	L0195	Manitouwadge	Manitouwadge	437	1,818	13,564
3	30.0	L0430	Cartier	Cartier	60	300	1,800
4	28.7	L0084	Bonfield	Bonfield	353	2,016	10,115
5	26.0	L0240	Larder Lake Public Library	Larder Lake	381	735	9,889
6	25.4	L0313	St. Charles	St. Charles	243	1,282	6,170
7	24.6	L0131	Rainy River	Rainy River	746	642	18,385
8	23.8	L0073	Grand Valley Library Board	Grand Valley	2,166	2,450	51,560
9	23.0	L0357	Val Rita-Harty Twp	Val Rita	288	775	6,623
10	22.8	L0179	Head, Clara & Maria	Stonecliffe	185	201	4,225
11	22.4	L0375	White River Twp	White River	253	607	5,670
12	21.2	L0380	Wollaston and Limerick Union	Coe Hill	450	1,004	9,547
13	21.1	L0385	Killaloe, Hagarty & Richards Twp	Killaloe	993	2,229	20,934
14	20.3	L0013	Armstrong Twp	Earlton	269	1,216	5,452
15	18.7	L0211	Moonbeam Twp	Moonbeam	578	1,039	10,827
16	18.7	L0250	Opasatika	Opasatika	118	221	2,208
17	18.1	L0447	Markstay-Warren	Markstay	577	2,366	10,464
18	18.1	L0377	Whitestone-Hagerman Memorial	Dunchurch	1,330	1,030	24,034
19	17.9	L0134	Mattawa	Mattawa	1,950	2,114	34,925
20	17.6	L0327	Ignace	Ignace	424	1,202	7,481
21	16.5	L0374	Westport	Westport	424	594	7,003
22	16.3	L0050	Dorion Twp	Dorion	300	340	4,891
23	16.2	L0017	Assinack Twp	Manitoulin Island	813	960	13,199
24	15.4	L0202	Perry Twp	Emsdale	338	1,787	5,218
25	15.4	L0302	Gore Bay Union	Gore Bay	750	1,684	11,536

Table 4: Rank Order Table: Circulations per active library cardholder, Ontario Public Libraries, 2015 (continued)

Rank	Annual Circulations per cardholder	Library Number	Library Name	City	Active Cardholders	Population (Resident)	Total Annual Direct Circulations
<i>Band 8 (Resident population fewer than 2,501) (continued)</i>							
26	15.4	L0284	Sundridge-Strong Union	Sundridge	918	2,234	14,120
27	15.3	L0497	Loring, Port Loring and District Local Services Board	Port Loring	430	800	6,576
28	15.0	L0323	Deseronto	Deseronto	1,070	1,835	16,000
29	14.9	L0381	Spanish Twp	Spanish	227	696	3,378
30	14.6	L0291	Red Rock Twp	Red Rock	508	942	7,410
31	14.5	L0162	Georgian Bay Twp	Honey Harbour	1,753	2,063	25,400
32	14.0	L0307	Simcoe County Co-operative	Midhurst	742	742	10,424
33	13.9	L0225	Nipigon Twp	Nipigon	761	1,631	10,597
34	13.8	L0021	Temagami	Temagami	582	820	8,021
35	12.8	L0083	Black River-Matheson Twp	Matheson	731	2,332	9,373
36	12.8	L0123	Kearney & Area	Kearney & Area	462	841	5,916
37	12.8	L0301	Schreiber Twp	Schreiber	816	1,126	10,430
38	12.4	L0344	Terrace Bay Twp	Terrace Bay	1,195	1,365	14,841
39	12.3	L0020	Mattice-Val Cote Twp	Mattice	434	661	5,350
40	12.2	L0478	Greater Madawaska Twp	Calabogie	522	2,485	6,392
41	12.1	L0055	Fauquier-Strickland Twp	Fauquier	517	525	6,279
42	11.9	L0183	Hilton Union	Hilton Beach	325	417	3,882
43	11.5	L0005	Addington Highlands Twp	Flinton	909	1,755	10,443
44	11.5	L0308	Sioux Narrows Nestor Falls Twp	Sioux Narrows	466	720	5,339
45	11.4	L0312	South River-Machar Union	South River	793	1,849	9,076
46	10.4	L0184	Hornepayne Twp	Hornepayne	381	1,050	3,961
47	10.1	L0082	Billings Twp	Kagawong	422	507	4,281
48	9.9	L0054	Englehart	Englehart	1,877	1,257	18,653
49	9.9	L0098	Emo Twp	Emo	1,526	1,056	15,051
50	9.7	L0102	Cobalt Twp	Cobalt	1,149	1,133	11,100
51	9.2	L0311	South Algonquin Twp	Whitney	660	1,211	6,092
52	8.3	L0199	McGarry Twp	Virginiatown	692	586	5,753
53	8.3	L0194	Magnetawan Twp	Magnetawan	986	1,165	8,154
54	7.7	L0044	Bruce Mines & Plummer Additional Union	Bruce Mines	1,329	1,216	10,284
55	7.3	L0112	Chapleau Twp	Chapleau	532	2,116	3,875
56	7.2	L0200	McKellar Twp	McKellar	440	1,012	3,188
57	7.1	L0427	Dubreuilville Twp	Dubreuilville	365	635	2,600
58	6.9	L0144	Ear Falls Twp	Ear Falls	539	1,026	3,742
59	6.6	L0314	St. Joseph Twp	Richards Landing	1,625	1,201	10,750
60	6.0	L0189	Huron Shores	Iron Bridge	267	1,723	1,609
61	6.0	L0109	Central Manitoulin Twp	Mindemoya	2,623	1,958	15,795
62	6.0	L0346	Thessalon	Thessalon	1,514	1,280	9,021
63	5.9	L0343	Tehkummah Twp	Tehkummah	455	406	2,705
64	5.5	L0261	Phelps	Redbridge	271	1,500	1,503
65	5.4	L0450	Tudor & Cashel Twp	Gilmour	225	586	1,224
66	4.8	L0280	James Twp	Elk Lake	402	424	1,943
67	4.8	L0275	Prince Twp Public Library	Prince Township	165	1,031	791
68	4.6	L0382	North Kawartha Twp	Apsley	5,840	2,126	26,946
69	3.0	L0310	Smooth Rock Falls	Smooth Rock Falls	789	1,376	2,400
70	2.5	L0106	Carlow/Mayo Public Library	Bancroft	529	895	1,300
71	0.9	L0465	Gogama LSB	Gogama	475	475	410

Table 4: Rank Order Table: Circulations per active library cardholder, Ontario Public Libraries, 2015 (continued)

Rank	Annual Circulations per cardholder	Library Number	Library Name	City	Active Cardholders	Population (Resident)	Total Annual Direct Circulations
<i>First Nations' Libraries</i>							
1	68.2	L0423	Wasauksing FN	Parry Sound	384	392	26,204
2	50.0	L0419	Sheshegwaning FN	Sheshegwaning	20	112	1,000
3	43.2	L0406	M'Chigeeng FN	M'Chigeeng First N	149	934	6,440
4	37.5	L0428	Mattagami FN	Gogama	40	170	1,500
5	31.2	L0415	Saugeen FN	Southampton	103	1,890	3,213
6	27.0	L0407	Magnetawan FN	Britt	5	75	135
7	26.5	L0396	Chippewas of Georgina Island FN	Sutton West	205	203	5,430
8	26.5	L0456	Ojibways of the Pic River FN	Heron Bay	108	528	2,860
9	26.0	L0425	Whitefish River FN	Birch Island	50	401	1,300
10	23.9	L0439	Temagami FN	Bear Island	125	239	2,984
11	21.4	L0453	Wahta Mohawk FN	Bala	35	303	750
12	20.9	L0393	Beausoleil First Nation Public Library	Christian Island	306	629	6,398
13	20.7	L0460	Henvey Inlet FN	Pickerel	70	189	1,450
14	17.3	L0446	Rainy River FN	Emo	80	437	1,386
15	15.4	L0411	Chippewas of Nawash FN	Warton	130	710	2,000
16	14.6	L0464	Michipicoten FN	Wawa	84	65	1,225
17	9.9	L0391	Algonquins of Pikwakanagan FN	Golden Lake	79	464	785
18	9.6	L0416	Seine River FN	Seine River FN	32	344	308
19	9.3	L0403	Dokis FN	Via Monetville	120	176	1,120
20	9.2	L0418	Shawanaga FN	Nobel	203	182	1,858
21	8.9	L0398	Chippewas of Rama FN	Rama	750	715	6,700
22	7.9	L0412	Nipissing FN	Garden Village	62	956	492
23	7.3	L0413	Ojibways of Onigaming FN	Nestor Falls	126	465	924
24	6.7	L0404	Garden River FN	Garden River	145	1,222	965
25	6.6	L0459	Mississauga FN	Blind River	445	392	2,950
26	5.7	L1084	Sachigo Lake FN	Sachigo Lake	175	497	996
27	4.3	L0394	Big Grassy FN	Morson	228	250	989
28	3.8	L0390	Alderville FN	Alderville	256	311	985
29	3.8	L0438	Iskatewizaagegan No. 39 FN	Shoal Lake	60	319	225
30	3.7	L0420	Six Nations FN	Ohswéken	3,662	12,606	13,428
31	3.2	L0402	Curve Lake FN	Curve Lake, ON	256	779	828
32	2.0	L0405	Mohawks of the Bay of Quinte FN	Tyendinga Mohav	669	2,160	1,307
33	1.8	L0408	Mohawks of Akwesasne FN	Cornwall	3,627	9,601	6,501
34	1.6	L0409	Nautkamegwanning FN	Nautkamegwanning	353	747	580
35	1.2	L0417	Serpent River FN	Cutler	190	359	220
36	1.1	L0462	Bkejwanong FN	Wallaceburg	656	2,326	700
37	1.0	L0426	Wikwemikong FN	Wikwemikong	1,089	3,150	1,080
38	0.9	L0432	Sagamok Anishnawbek FN	Massey	221	1,567	198
39	0.9	L0440	Mississaugas of Scugog Island FN	Port Perry	56	48	50
40	0.8	L0424	Atikameksheng Anishnawbek Band No. 6 FN	Whitefish First Nat	400	377	300
41	0.7	L0400	Chippewas of the Thames FN	Muncey	150	971	103
42	0.6	L0397	Chippewas of Kettle & Stony Point FN	Kettle and Stony Pt	383	1,328	229
43	0.6	L0410	New Credit FN	Hagersville	260	941	148
44	0.3	L0422	Thessalon FN	Thessalon	150	106	50
45	0.3	L0431	Delaware FN	Thamesville	375	235	115
46	0.3	L1035	Aundeck-Omni-Kaning FN	Little Current	64	365	16

Table 5: Rank Order Table: Total Expenditures per capita, Ontario Public Libraries, 2015

Rank	Expenditures per capita in \$	Library Number	Library Name	City	Total Operating Expenditures in \$	Population (Resident)
<b>Band 1 (Resident population greater than 250,000)</b>						
1	67.94	L0353	Toronto	Toronto	192,017,627	2,826,498
2	55.96	L0474	Hamilton	Hamilton	30,818,824	550,700
3	54.65	L0245	London	London	20,836,559	381,310
4	49.05	L0481	Ottawa	Ottawa	47,127,634	960,754
5	45.56	L0359	Vaughan	Vaughan	14,739,507	323,500
6	41.79	L0099	Markham	Markham	14,621,212	349,884
7	34.59	L0206	Mississauga	Mississauga	26,424,152	764,000
8	28.02	L0041	Brampton	Brampton	16,269,771	580,600
<b>Band 2 (Resident population greater than 100,000 and fewer than 250,001)</b>						
1	72.64	L0389	Guelph	Guelph	9,170,319	126,250
2	61.81	L0037	Burlington	Burlington	10,822,923	175,103
3	57.42	L0349	Thunder Bay	Thunder Bay	6,222,331	108,359
4	54.64	L0253	Oshawa	Oshawa	8,878,963	162,500
5	50.88	L0294	Richmond Hill	Richmond Hill	10,524,909	206,850
6	50.52	L0470	Greater Sudbury	Greater Sudbury	8,179,168	161,900
7	50.08	L0239	Lambton County	Wyoming	6,319,666	126,199
8	50.03	L0043	Barrie	Barrie	7,185,821	143,634
9	50.01	L0247	Oakville	Oakville	9,507,111	190,100
10	47.24	L0213	Kingston-Frontenac County	Kingston	7,274,560	153,992
11	46.95	L0127	Kitchener	Kitchener	11,262,148	239,900
12	45.14	L0104	Cambridge	Cambridge	6,093,961	135,000
13	44.20	L0434	Milton	Milton	4,583,457	103,700
14	44.18	L0025	St. Catharines	St. Catharines	5,804,579	131,400
15	42.78	L0027	Whitby	Whitby	5,706,953	133,400
16	41.02	L0121	Chatham-Kent	Chatham	4,269,293	104,075
17	40.65	L0378	Windsor	Windsor	8,571,812	210,891
18	40.00	L0365	Waterloo City	Waterloo	5,423,785	135,596
19	36.92	L0032	Ajax	Ajax	4,500,551	121,900
20	28.43	L0153	Essex County	Essex	5,022,413	176,642
<b>Band 3 (Resident population greater than 50,000 and fewer than 100,001)</b>						
1	66.17	L0033	Aurora	Aurora	3,718,641	56,200
2	64.24	L0367	Wellington County	Fergus	6,103,840	95,010
3	64.24	L0326	Halton Hills	Georgetown	3,697,105	57,551
4	59.84	L0340	Pickering	Pickering	5,719,950	95,593
5	57.94	L0089	Bruce County	Town of Saugeen Shores	3,541,222	61,119
6	55.32	L0257	Oxford County	Woodstock	3,621,813	65,471
7	51.92	L0188	Huron County	Clinton	2,989,304	57,579
8	51.84	L0222	Niagara Falls	Niagara Falls	4,302,363	82,997
9	48.87	L0268	Peterborough	Peterborough	3,846,125	78,700
10	48.79	L0039	Brantford	Brantford	4,774,664	97,862
11	47.20	L0480	Norfolk County	Simcoe	2,981,666	63,175
12	44.99	L0049	Caledon	Caledon East	3,241,393	72,040
13	44.69	L0191	Sault Ste. Marie	Sault Ste. Marie	3,358,337	75,140
14	43.53	L0205	Middlesex County Library	Strathroy	3,308,175	76,004
15	42.48	L0227	North Bay	North Bay	2,279,052	53,651
16	40.63	L0366	Welland	Welland	2,057,321	50,631
17	40.14	L0270	Waterloo Region	Baden	2,588,942	64,504
18	36.72	L0019	Newmarket	Newmarket	3,160,657	86,071
19	34.36	L0319	Stormont, Dundas & Glengarry County	Cornwall	2,227,462	64,824
20	33.09	L0113	Clarington, Municipality of	Bowmanville	3,034,777	91,726
21	24.03	L0476	Kawartha Lakes, City of	Lindsay	1,759,362	73,214

Table 5: Rank Order Table: Total Expenditures per capita, Ontario Public Libraries, 2015

Rank	Expenditures per capita in \$	Library Number	Library Name	City	Total Operating Expenditures in \$	Population (Resident)
<b>Band 4 (Resident population greater than 30,000 and fewer than 50,001)</b>						
1	90.82	L0277	Innisfil	Innisfil	3,243,842	35,717
2	81.11	L0269	Stratford	Stratford	2,505,283	30,886
3	70.59	L0023	Orillia	Orillia	2,173,907	30,797
4	65.62	L0379	Woodstock	Woodstock	2,477,581	37,754
5	62.16	L0086	Bradford West Gwillimbury Town	Bradford	2,129,806	34,266
6	60.49	L0315	St. Thomas	St. Thomas	2,292,695	37,905
7	58.21	L0040	Brant County	Paris	1,806,132	31,030
8	54.14	L0151	Elgin County	St. Thomas	2,682,696	49,556
9	49.41	L0047	Cornwall	Cornwall	2,289,473	46,340
10	44.16	L0081	Belleville	Belleville	2,183,779	49,454
11	44.06	L0072	Georgina	Keswick	2,189,803	49,700
12	42.83	L0256	Owen Sound & North Grey Union	Owen Sound	1,507,882	35,208
13	41.46	L0351	Timmins	Timmins	1,789,574	43,165
14	41.35	L0207	New Tecumseth	Alliston	1,405,705	33,998
15	39.69	L0148	Whitchurch-Stouffville	Stouffville	1,881,238	47,400
16	39.05	L0473	Haldimand County	Dunnville	1,752,328	44,876
17	33.44	L0285	Quinte West	Trenton	1,440,745	43,086
18	31.68	L0243	Lennox and Addington County	Napanee	1,269,341	40,069
<b>Band 5 (Resident population greater than 15,000 and fewer than 30,001)</b>						
1	83.22	L0022	Midland	Midland	1,379,140	16,572
2	80.46	L0066	Collingwood	Collingwood	1,625,086	20,197
3	80.40	L0125	King Twp	King City	1,599,877	19,899
4	68.82	L0116	Cobourg	Cobourg	1,274,554	18,519
5	67.74	L0147	East Gwillimbury	Holland Landing	1,388,608	20,498
6	58.19	L0074	Orangeville	Orangeville	1,672,014	28,734
7	57.24	L0262	Pelham	Fonthill	894,501	15,626
8	53.07	L0433	Lincoln	Beamsville	1,067,111	20,106
9	49.75	L0156	Fort Erie	Fort Erie	1,490,396	29,960
10	47.19	L0485	Kenora City	Kenora	724,271	15,348
11	46.77	L0276	Prince Edward County	Picton	1,181,412	25,258
12	46.48	L0185	Huntsville	Huntsville	885,678	19,056
13	46.12	L0499	Port Hope	Port Hope	747,767	16,214
14	44.55	L0223	Niagara-on-the-Lake	Niagara-on-the-Lake	686,010	15,400
15	42.81	L0300	Russell	Russell	652,824	15,250
16	41.32	L0024	Port Colborne	Port Colborne	743,821	18,003
17	40.68	L0088	Brockville	Brockville	889,737	21,870
18	40.66	L0267	Petawawa	Petawawa	649,463	15,973
19	38.93	L0304	Scugog Memorial	Port Perry	723,046	18,575
20	38.74	L0356	Uxbridge Twp	Uxbridge	798,837	20,623
21	37.89	L0169	Grimsby	Grimsby	959,659	25,325
22	36.03	L0387	Essa	Angus	666,706	18,505
23	35.20	L0348	Thorold	Thorold	631,075	17,931
24	33.74	L0264	Perth and District Union	Perth	653,813	19,380
25	32.83	L0309	Selwyn	Bridgenorth	571,929	17,419
26	32.83	L0228	North Grenville Twp	Kemptville	495,281	15,085
27	31.48	L0259	Springwater Twp	Midhurst	573,630	18,223
28	31.08	L0364	Wasaga Beach	Wasaga Beach	578,613	18,615
29	20.79	L0120	Clarence-Rockland	Rockland	599,180	28,823

Table 5: Rank Order Table: Total Expenditures per capita, Ontario Public Libraries, 2015

Rank	Expenditures per capita in \$	Library Number	Library Name	City	Total Operating Expenditures in \$	Population (Resident)
<i>Band 6 (Resident population greater than 5,000 and fewer than 15,001)</i>						
1	103.64	L0065	The Blue Mountains	Thornbury	668,779	6,453
2	85.82	L0031	Sioux Lookout	Sioux Lookout	457,914	5,336
3	81.25	L0117	Cochrane Public Library Board	Cochrane	433,888	5,340
4	80.26	L0174	Hanover	Hanover	601,167	7,490
5	78.54	L0157	Fort Frances	Fort Frances	624,755	7,955
6	74.21	L0271	St. Marys Public Library	St. Marys	457,481	6,165
7	64.95	L0052	Espanola	Espanola	348,384	5,364
8	63.43	L0203	Meaford	Meaford	704,032	11,100
9	62.72	L0212	Muskoka Lakes Twp	Port Carling	420,642	6,707
10	62.68	L0171	Haliburton County	Haliburton	896,627	14,305
11	62.05	L0362	Wainfleet Twp	Wainfleet	394,660	6,360
12	61.23	L0070	Bracebridge	Bracebridge	914,818	14,941
13	60.96	L0080	Bonnechere Union	Eganville	337,943	5,544
14	59.86	L0095	Parry Sound	Parry Sound	370,612	6,191
15	56.85	L0071	Pembroke	Pembroke	617,819	10,867
16	56.01	L0075	Shelburne	Shelburne	388,790	6,941
17	55.05	L0292	Renfrew	Renfrew	452,506	8,220
18	54.56	L0014	Arnprior	Arnprior	499,341	9,153
19	53.14	L0231	North Perth	Monkton	671,162	12,631
20	52.67	L0498	Rideau Lakes Public Library	Elgin	476,694	9,050
21	51.01	L0180	Hearst Twp	Hearst	259,624	5,090
22	50.82	L0287	Ramara Twp	Brechin	412,180	8,110
23	50.43	L0115	Clearview Twp	Stayner	692,535	13,734
24	50.24	L0477	Leeds and the Thousand Islands Twp	Lansdowne	466,027	9,277
25	50.08	L0168	Gravenhurst Public Library	Gravenhurst	603,705	12,055
26	49.94	L0038	Brock Twp	Beaverton	584,338	11,700
27	48.68	L0209	Smiths Falls	Smiths Falls	437,088	8,978
28	48.66	L0059	Hawkesbury	Hawkesbury	513,382	10,551
29	48.52	L0472	Grey Highlands	Flesherton	389,754	8,033
30	48.06	L0263	Penetanguishene	Penetanguishene	437,864	9,111
31	47.74	L0138	Dryden	Dryden	363,666	7,617
32	46.78	L0210	Mississippi Mills	Almonte	579,421	12,385
33	46.04	L1037	Temiskaming Shores	Haileybury	478,855	10,400
34	45.56	L0273	Powassan & District Union Public Library	Powassan	266,053	5,840
35	45.56	L0119	Cramahe Twp	Colborne	241,358	5,298
36	45.27	L0004	Alfred & Plantagenet Twp	Lefaivre	363,159	8,022
37	43.92	L0342	Tay Twp	Port McNicoll	411,756	9,376
38	43.57	L0159	Trent Lakes	Buckhorn	222,401	5,105
39	42.21	L0152	Elliot Lake	Elliot Lake	431,307	10,218
40	38.98	L0466	Brighton Public Library Board	Brighton	425,928	10,928
41	38.85	L0500	Trent Hills	Campbellford	489,633	12,604
42	38.25	L0048	Carleton Place	Carleton Place	394,686	10,320
43	36.84	L0160	Gananoque	Gananoque	191,343	5,194
44	35.19	L0091	La Nation	St-Isidore	410,568	11,668
45	34.71	L0371	West Nipissing	Sturgeon Falls	491,114	14,149
46	33.03	L0126	Kirkland Lake	Kirkland Lake	280,491	8,493
47	32.78	L0045	Cavan Monaghan Public Library Board, Township of	Millbrook	281,953	8,601
48	30.55	L0487	Alnwick/Haldimand Twp	Grafton	191,851	6,279
49	29.93	L0122	Kapuskasing	Kapuskasing	212,004	7,083
50	27.78	L0370	West Lincoln Twp	Smithville	385,200	13,867
51	27.10	L0265	Perth East	Milverton	267,793	9,882
52	26.41	L0255	Otonabee-South Monaghan Twp	Keene	175,883	6,660
53	25.77	L0108	Champlain Twp	Vankleek Hill	196,075	7,610
54	25.53	L0372	West Perth	Mitchell	227,691	8,919
55	25.35	L0332	Southgate Twp.	Dundalk	182,245	7,190
56	24.62	L0165	Oliver Paipoonge	Murillo	127,397	5,174
57	24.35	L0336	West Grey Twp	Durham	299,150	12,286
58	18.21	L0136	Douro-Dummer Twp	Douro	108,814	5,976
59	17.81	L0330	Lanark Highlands	Lanark	91,303	5,128
60	15.06	L0482	Whitewater Region	Beachburg	86,648	5,754
61	14.96	L0010	Augusta Twp	Brockville	111,163	7,430
62	14.65	L0467	Edwardsburgh/Cardinal Twp	Spencerville	101,975	6,959
63	12.67	L0258	Severn Township Library	Coldwater	143,577	11,336
64	11.18	L0469	Elizabethtown - Kitley	Addison	108,673	9,724



Table 5: Rank Order Table: Total Expenditures per capita, Ontario Public Libraries, 2015

Rank	Expenditures per capita in \$	Library Number	Library Name	City	Total Operating Expenditures in \$	Population (Resident)
<b>Band 7 (Resident population greater than 2,500 and fewer than 5,001)</b>						
1	106.35	L0238	Lake of Bays Twp	Baysville	349,254	3,284
2	105.66	L0471	Greenstone	Geraldton	471,963	4,467
3	95.32	L0051	Deep River	Deep River	399,683	4,193
4	87.47	L0011	Atikokan	Atikokan	227,079	2,596
5	72.61	L0178	Wawa	Wawa	215,294	2,965
6	60.77	L0278	Iroquois Falls	Iroquois Falls	249,534	4,106
7	59.36	L0303	Sables-Spanish Rivers Twp	Massey	162,890	2,744
8	55.45	L1036	Callander	Callander	214,254	3,864
9	55.09	L0196	Marathon	Marathon	184,721	3,353
10	53.89	L0325	French River	Noelville	137,252	2,547
11	51.14	L0475	Hastings Highlands Twp	Maynooth	213,250	4,170
12	48.73	L0290	Red Lake	Balmertown	227,577	4,670
13	47.54	L0090	Burk's Falls, Armour & Ryerson Union	Burk's Falls	141,340	2,973
14	46.56	L0496	Madawaska Valley Twp	Barry's Bay	176,645	3,794
15	41.52	L0384	Laurentian Hills	Deep River	116,702	2,811
16	41.29	L0321	Seguin Twp	Seguin	176,562	4,276
17	40.21	L0107	Casselman	Casselman	125,802	3,129
18	38.66	L0062	Bancroft Town	Bancroft	149,983	3,880
19	37.71	L0204	Merrickville-Wolford	Merrickville	107,480	2,850
20	36.30	L0232	Northeastern Manitoulin and the Islands	Little Current On	98,213	2,706
21	36.12	L0429	Blind River	Blind River	129,133	3,575
22	35.79	L0274	Prescott	Prescott	153,335	4,284
23	35.15	L0355	Tweed	Tweed	174,155	4,955
24	35.00	L0058	Havelock-Belmont-Methuen Twp	Havelock	139,714	3,992
25	31.05	L0318	Stirling-Rawdon	Stirling	154,582	4,978
26	30.98	L0016	Asphodel-Norwood	Norwood	125,173	4,041
27	30.07	L0110	Centre Hastings	Madoc	136,628	4,543
28	26.61	L0145	East Ferris	Astorville	126,803	4,766
29	26.12	L0339	Tyendinaga Twp	Shannonville	93,560	3,582
30	25.41	L0463	Marmorata and Lake Twp	Marmorata	103,415	4,070
31	18.26	L0448	Front of Yonge Twp	Mallorytown	50,262	2,752
32	15.31	L0018	Athens Twp	Athens	50,086	3,272
33	13.47	L0002	Admaston/Bromley Twp	Douglas	35,326	2,622
<b>Band 8 (Resident population fewer than 2,501)</b>						
1	912.16	L0307	Simcoe County Co-operative	Midhurst	676,826	742
2	153.09	L0344	Terrace Bay Twp	Terrace Bay	208,966	1,365
3	138.37	L0131	Rainy River	Rainy River	88,834	642
4	132.50	L0211	Moonbeam Twp	Moonbeam	137,663	1,039
5	124.77	L0382	North Kawartha Twp	Apsley	265,257	2,126
6	122.17	L0144	Ear Falls Twp	Ear Falls	125,343	1,026
7	117.20	L0020	Mattice-Val Cote Twp	Mattice	77,470	661
8	116.73	L0199	McGarry Twp	Virginiatown	68,406	586
9	112.15	L0377	Whitestone-Hagerman Memorial	Dunchurch	115,515	1,030
10	111.87	L0240	Larder Lake Public Library	Larder Lake	82,227	735
11	111.26	L0250	Opasatika	Opasatika	24,589	221
12	110.76	L0301	Schreiber Twp	Schreiber	124,714	1,126
13	103.27	L0050	Dorion Twp	Dorion	35,110	340
14	103.21	L0073	Grand Valley Library Board	Grand Valley	252,855	2,450
15	102.37	L0055	Fauquier-Strickland Twp	Fauquier	53,746	525
16	95.39	L0184	Hornepayne Twp	Hornepayne	100,162	1,050
17	93.58	L0183	Hilton Union	Hilton Beach	39,023	417
18	91.38	L0162	Georgian Bay Twp	Honey Harbour	188,513	2,063
19	91.17	L0280	James Twp	Elk Lake	38,656	424
20	91.17	L0291	Red Rock Twp	Red Rock	85,879	942
21	84.37	L0044	Bruce Mines & Plummer Additional Union	Bruce Mines	102,599	1,216
22	82.34	L0021	Temagami	Temagami	67,516	820
23	81.84	L0375	White River Twp	White River	49,678	607
24	81.81	L0194	Magnetawan Twp	Magnetawan	95,306	1,165
25	76.32	L0323	Deseronto	Deseronto	140,038	1,835

Table 5: Rank Order Table: Total Expenditures per capita, Ontario Public Libraries, 2015

Rank	Expenditures per capita in \$	Library Number	Library Name	City	Total Operating Expenditures in \$	Population (Resident)
<i>Band 8 (Resident population fewer than 2,501) (continued)</i>						
26	74.25	L0098	Emo Twp	Emo	78,404	1,056
27	73.35	L0179	Head, Clara & Maria	Stonecliffe	14,743	201
28	70.68	L0054	Englehart	Englehart	88,848	1,257
29	70.30	L0225	Nipigon Twp	Nipigon	114,660	1,631
30	69.67	L0357	Val Rita-Harty Twp	Val Rita	53,991	775
31	67.01	L0082	Billings Twp	Kagawong	33,975	507
32	66.69	L0381	Spanish Twp	Spanish	46,413	696
33	64.68	L0195	Manitouowadge	Manitouowadge	117,583	1,818
34	61.26	L0374	Westport	Westport	36,386	594
35	58.79	L0112	Chapleau Twp	Chapleau	124,402	2,116
36	57.29	L0134	Mattawa	Mattawa	121,111	2,114
37	57.21	L0327	Ignace	Ignace	68,763	1,202
38	55.07	L0102	Cobalt Twp	Cobalt	62,399	1,133
39	53.23	L0005	Addington Highlands Twp	Flinton	93,420	1,755
40	51.36	L0109	Central Manitoulin Twp	Mindemoya	100,560	1,958
41	51.20	L0202	Perry Twp	Emsdale	91,489	1,787
42	50.28	L0017	Assignack Twp	Manitoulin Island	48,264	960
43	49.22	L0123	Kearney & Area	Kearney	41,396	841
44	48.79	L0308	Sioux Narrows Nestor Falls Twp	Sioux Narrows	35,129	720
45	46.61	L0313	St. Charles	St. Charles	59,749	1,282
46	46.34	L0013	Armstrong Twp	Earlton	56,352	1,216
47	45.49	L0083	Black River-Matheson Twp	Matheson	106,089	2,332
48	45.41	L0084	Bonfield	Bonfield	91,552	2,016
49	45.01	L0200	McKellar Twp	McKellar	45,552	1,012
50	44.90	L0346	Thessalon	Thessalon	57,470	1,280
51	44.81	L0385	Killaloe, Hagarty & Richards Twp	Killaloe	99,884	2,229
52	43.66	L0312	South River-Machar Union	South River	80,724	1,849
53	43.04	L0311	South Algonquin Twp	Whitney	52,122	1,211
54	42.08	L0310	Smooth Rock Falls	Smooth Rock Falls	57,900	1,376
55	42.00	L0380	Wollaston and Limerick Union	Coe Hill	42,168	1,004
56	39.17	L0447	Markstay-Warren	Markstay	92,664	2,366
57	37.98	L0284	Sundridge-Strong Union	Sundridge	84,848	2,234
58	30.46	L0478	Greater Madawaska Twp	Calabogie	75,682	2,485
59	30.11	L0302	Gore Bay Union	Gore Bay	50,697	1,684
60	28.44	L0343	Tehkummah Twp	Tehkummah	11,548	406
61	28.02	L0189	Huron Shores	Iron Bridge	48,274	1,723
62	23.82	L0314	St. Joseph Twp	Richards Landing	28,606	1,201
63	23.67	L0106	Carlow/Mayo Public Library	Bancroft	21,184	895
64	22.18	L0450	Tudor & Cashel Twp	Gilmour	12,996	586
65	16.37	L0275	Prince Twp Public Library	Prince Township	16,882	1,031
66	14.50	L0427	Dubreuilville Twp	Dubreuilville	9,208	635
67	8.33	L0430	Cartier	Cartier	2,500	300
68	7.26	L0497	Loring, Port Loring and District Local Services Board	Port Loring	5,808	800
69	6.20	L0322	Britt Area	Britt	5,823	940
70	5.57	L0261	Phelps	Redbridge	8,351	1,500
71	2.80	L0465	Gogama LSB	Gogama	1,330	475

Table 5: Rank Order Table: Total Expenditures per capita, Ontario Public Libraries, 2015

Rank	Expenditures per capita in \$	Library Number	Library Name	City	Total Operating Expenditures in \$	Population (Resident)
<i>First Nations' Libraries</i>						
1	460.66	L0464	Michipicoten FN	Wawa	29,943	65
2	376.42	L0396	Chippewas of Georgina Island FN	Sutton West	76,414	203
3	319.90	L0398	Chippewas of Rama FN	Rama	228,731	715
4	306.52	L0440	Mississaugas of Scugog Island FN	Port Perry	14,713	48
5	282.51	L0407	Magnetawan FN	Britt	21,188	75
6	251.86	L0403	Dokis FN	Via Monetville	44,327	176
7	245.62	L0422	Thessalon FN	Thessalon	26,036	106
8	213.41	L0428	Mattagami FN	Gogama	36,280	170
9	162.51	L0419	Sheshegwaning FN	Sheshegwaning	18,201	112
10	141.43	L0460	Henvey Inlet FN	Pickerel	26,730	189
11	124.80	L0394	Big Grassy FN	Morson	31,200	250
12	119.83	L0438	Iskatewizaagegan No. 39 FN	Shoal Lake	38,225	319
13	116.26	L0418	Shawanaga FN	Nobel	21,159	182
14	110.13	L0424	Atikameksheng Anishnawbek Band No. 6 FN	Whitefish First Nation	41,518	377
15	105.37	L0416	Seine River FN	Seine River FN	36,247	344
16	96.98	L0439	Temagami FN	Bear Island	23,177	239
17	88.82	L0390	Alderville FN	Alderville	27,623	311
18	87.93	L0431	Delaware FN	Thamesville	20,664	235
19	74.41	L0456	Ojibways of the Pic River FN	Heron Bay	39,287	528
20	70.67	L1084	Sachigo Lake FN	Sachigo Lake	35,123	497
21	66.38	L0391	Algonquins of Pikwakanagan FN	Golden Lake	30,799	464
22	64.90	L0393	Beausoleil First Nation Public Library	Christian Island	40,819	629
23	64.11	L0453	Wahta Mohawk FN	Bala	19,426	303
24	58.55	L0417	Serpent River FN	Cutler	21,020	359
25	53.93	L0412	Nipissing FN	Garden Village	51,560	956
26	53.26	L0402	Curve Lake FN	Curve Lake,ON	41,490	779
27	52.39	L0425	Whitefish River FN	Birch Island	21,010	401
28	51.04	L0446	Rainy River FN	Emo	22,303	437
29	48.37	L0406	M'Chigeeng FN	M'Chigeeng First Nation	45,179	934
30	47.96	L0459	Mississauga FN	Blind River	18,802	392
31	44.91	L0408	Mohawks of Akwesasne FN	Cornwall	431,139	9,601
32	41.95	L0423	Wasauksing FN	Parry Sound	16,443	392
33	41.47	L0413	Ojibways of Onigaming FN	Nestor Falls	19,285	465
34	41.41	L0410	New Credit FN	Hagersville	38,967	941
35	41.03	L0409	Naotkamegwanning FN	Naotkamegwanning	30,648	747
36	40.40	L0462	Bkejwanong FN	Wallaceburg	93,964	2,326
37	31.13	L0397	Chippewas of Kettle & Stony Point FN	Kettle and Stony Point First	41,343	1,328
38	27.36	L0411	Chippewas of Nawash FN	Warton	19,426	710
39	27.30	L0426	Wikwemikong FN	Wikwemikong	85,989	3,150
40	26.81	L0432	Sagamok Anishnawbek FN	Massey	42,015	1,567
41	26.31	L0405	Mohawks of the Bay of Quinte FN	Tyendinaga Mohawk Territ	56,834	2,160
42	26.11	L0415	Saugeen FN	Southampton	49,349	1,890
43	24.44	L0420	Six Nations FN	Ohsweken	308,134	12,606
44	22.87	L0404	Garden River FN	Garden River	27,943	1,222
45	21.32	L0400	Chippewas of the Thames FN	Muncey	20,700	971
46	14.34	L1035	Aundeck-Omni-Kaning FN	Little Current	5,233	365

Table 6: Rank Order Table: Electronic Materials Expenditures per capita, by bands, Ontario Public Libraries, 2015

Rank	Expenditures for Electronic Materials per capita \$	Library Number	Library Name	City	Total Expenditures for Electronic Materials \$	Population (Resident)
<b>Band 1 (Resident population greater than 250,000)</b>						
1	3.55	L0474	Hamilton	Hamilton	1,954,332	550,700
2	1.68	L0353	Toronto	Toronto	4,749,402	2,826,498
3	1.62	L0099	Markham	Markham	568,282	349,884
4	1.43	L0041	Brampton	Brampton	829,376	580,600
5	1.41	L0245	London	London	539,175	381,310
6	1.06	L0481	Ottawa	Ottawa	1,022,673	960,754
7	0.96	L0206	Mississauga	Mississauga	730,027	764,000
8	0.76	L0359	Vaughan	Vaughan	247,001	323,500
<b>Band 2 (Resident population greater than 100,000 and fewer than 250,001)</b>						
1	3.16	L0470	Greater Sudbury	Greater Sudbury	511,225	161,900
2	2.75	L0389	Guelph	Guelph	346,998	126,250
3	2.56	L0121	Chatham-Kent	Chatham	266,096	104,075
4	2.49	L0239	Lambton County	Wyoming	313,950	126,199
5	2.46	L0025	St. Catharines	St. Catharines	323,779	131,400
6	2.43	L0027	Whitby	Whitby	323,516	133,400
7	2.41	L0127	Kitchener	Kitchener	577,544	239,900
8	2.40	L0043	Barrie	Barrie	344,558	143,634
9	2.31	L0153	Essex County	Essex	408,634	176,642
10	2.16	L0247	Oakville	Oakville	411,331	190,100
11	2.14	L0378	Windsor	Windsor	450,682	210,891
12	2.12	L0037	Burlington	Burlington	371,401	175,103
13	1.72	L0434	Milton	Milton	177,836	103,700
14	1.69	L0349	Thunder Bay	Thunder Bay	183,010	108,359
15	1.66	L0213	Kingston-Frontenac County	Kingston	255,784	153,992
16	1.60	L0253	Oshawa	Oshawa	260,731	162,500
17	1.60	L0294	Richmond Hill	Richmond Hill	330,430	206,850
18	1.44	L0032	Ajax	Ajax	176,081	121,900
19	1.40	L0104	Cambridge	Cambridge	189,021	135,000
20	0.56	L0365	Waterloo City	Waterloo	76,356	135,596
<b>Band 3 (Resident population greater than 50,000 and fewer than 100,001)</b>						
1	2.98	L0340	Pickering	Pickering	284,416	95,593
2	2.91	L0268	Peterborough	Peterborough	228,933	78,700
3	2.22	L0049	Caledon	Caledon East	160,076	72,040
4	2.19	L0033	Aurora	Aurora	122,956	56,200
5	2.03	L0326	Halton Hills	Georgetown	116,700	57,551
6	1.81	L0480	Norfolk County	Simcoe	114,404	63,175
7	1.66	L0222	Niagara Falls	Niagara Falls	137,369	82,997
8	1.52	L0366	Welland	Welland	77,130	50,631
9	1.38	L0270	Waterloo Region	Baden	89,166	64,504
10	1.29	L0367	Wellington County	Fergus	122,793	95,010
11	1.20	L0257	Oxford County	Woodstock	78,285	65,471
12	1.20	L0039	Brantford	Brantford	116,994	97,862
13	1.15	L0019	Newmarket	Newmarket	98,933	86,071
14	1.11	L0319	Stormont, Dundas & Glengarry County	Cornwall	72,030	64,824
15	0.95	L0227	North Bay	North Bay	50,799	53,651
16	0.94	L0188	Huron County	Clinton	53,855	57,579
17	0.74	L0113	Clarington, Municipality of	Bowmanville	67,752	91,726
18	0.65	L0089	Bruce County	Town of Saugeen Shores	39,616	61,119
19	0.61	L0191	Sault Ste. Marie	Sault Ste. Marie	46,145	75,140
20	0.52	L0476	Kawartha Lakes, City of	Lindsay	38,328	73,214
21	0.45	L0205	Middlesex County Library	Strathroy	34,120	76,004

Table 6: Rank Order Table: Electronic Materials Expenditures per capita, by bands, Ontario Public Libraries, 2015 (continued)

Rank	Expenditures for Electronic Materials per capita \$	Library Number	Library Name	City	Total Expenditures for Electronic Materials \$	Population (Resident)
<i>Band 4 (Resident population greater than 30,000 and fewer than 50,001)</i>						
1	3.05	L0379	Woodstock	Woodstock	115,217	37,754
2	2.50	L0277	Innisfil	Innisfil	89,175	35,717
3	2.47	L0269	Stratford	Stratford	76,148	30,886
4	2.21	L0151	Elgin County	St. Thomas	109,411	49,556
5	2.01	L0040	Brant County	Paris	62,426	31,030
6	1.87	L0473	Haldimand County	Dunnville	83,748	44,876
7	1.83	L0148	Whitchurch-Stouffville	Stouffville	86,513	47,400
8	1.73	L0023	Orillia	Orillia	53,181	30,797
9	1.40	L0081	Belleville	Belleville	69,406	49,454
10	1.19	L0315	St. Thomas	St. Thomas	45,128	37,905
11	1.14	L0256	Owen Sound & North Grey Union	Owen Sound	40,012	35,208
12	1.10	L0086	Bradford West Gwillimbury Town	Bradford	37,570	34,266
13	0.96	L0285	Quinte West	Trenton	41,176	43,086
14	0.64	L0072	Georgina	Keswick	31,649	49,700
15	0.42	L0351	Timmins	Timmins	18,287	43,165
16	0.41	L0207	New Tecumseth	Alliston	14,000	33,998
17	0.32	L0243	Lennox and Addington County	Napanee	13,000	40,069
18	0.29	L0047	Cornwall	Cornwall	13,232	46,340
<i>Band 5 (Resident population greater than 15,000 and fewer than 30,001)</i>						
1	3.22	L0125	King Twp	King City	63,980	19,899
2	2.65	L0147	East Gwillimbury	Holland Landing	54,267	20,498
3	2.46	L0185	Huntsville	Huntsville	46,869	19,056
4	1.82	L0169	Grimsby	Grimsby	46,000	25,325
5	1.70	L0116	Cobourg	Cobourg	31,554	18,519
6	1.61	L0156	Fort Erie	Fort Erie	48,199	29,960
7	1.48	L0024	Port Colborne	Port Colborne	26,681	18,003
8	1.47	L0223	Niagara-on-the-Lake	Niagara-on-the-Lake	22,613	15,400
9	1.45	L0485	Kenora City	Kenora	22,308	15,348
10	1.43	L0276	Prince Edward County	Picton	36,000	25,258
11	1.21	L0262	Pelham	Fonthill	18,937	15,626
12	1.18	L0088	Brockville	Brockville	25,884	21,870
13	1.18	L0433	Lincoln	Beamsville	23,713	20,106
14	1.09	L0387	Essa	Angus	20,125	18,505
15	1.01	L0267	Petawawa	Petawawa	16,112	15,973
16	0.95	L0022	Midland	Midland	15,659	16,572
17	0.82	L0304	Scugog Memorial	Port Perry	15,145	18,575
18	0.73	L0300	Russell	Russell	11,103	15,250
19	0.73	L0074	Orangeville	Orangeville	20,859	28,734
20	0.68	L0228	North Grenville Twp	Kemptville	10,271	15,085
21	0.68	L0066	Collingwood	Collingwood	13,741	20,197
22	0.60	L0356	Uxbridge Twp	Uxbridge	12,337	20,623
23	0.58	L0259	Springwater Twp	Midhurst	10,643	18,223
24	0.53	L0264	Perth and District Union	Perth	10,320	19,380
25	0.52	L0309	Selwyn	Bridgenorth	8,967	17,419
26	0.29	L0348	Thorold	Thorold	5,127	17,931
27	0.28	L0499	Port Hope	Port Hope	4,488	16,214
28	0.15	L0120	Clarence-Rockland	Rockland	4,410	28,823
29	0.11	L0364	Wasaga Beach	Wasaga Beach	2,000	18,615

Table 6: Rank Order Table: Electronic Materials Expenditures per capita, by bands, Ontario Public Libraries, 2015 (continued)

Rank	Expenditures for Electronic Materials per capita		Library Number	Library Name	City	Total Expenditures for Electronic Materials		Population (Resident)
	\$					\$		
1	2.95		L0031	Sioux Lookout	Sioux Lookout	15,717	5,336	
2	2.67		L0075	Shelburne	Shelburne	18,509	6,941	
3	2.29		L0157	Fort Frances	Fort Frances	18,234	7,955	
4	2.09		L0038	Brock Twp	Beaverton	24,423	11,700	
5	2.07		L0070	Bracebridge	Bracebridge	30,879	14,941	
6	2.02		L0362	Wainfleet Twp	Wainfleet	12,839	6,360	
7	1.90		L0498	Rideau Lakes Public Library	Elgin	17,208	9,050	
8	1.58		L0119	Cramahe Twp	Colborne	8,352	5,298	
9	1.46		L0065	The Blue Mountains	Thornbury	9,388	6,453	
10	1.44		L0466	Brighton Public Library Board	Brighton	15,690	10,928	
11	1.40		L0258	Severn Township Library	Coldwater	15,911	11,336	
12	1.38		L0231	North Perth	Monkton	17,471	12,631	
13	1.35		L0212	Muskoka Lakes Twp	Port Carling	9,050	6,707	
14	1.35		L0174	Hanover	Hanover	10,075	7,490	
15	1.21		L0273	Powassan & District Union Public Library	Powassan	7,075	5,840	
16	1.19		L1037	Temiskaming Shores	Haileybury	12,398	10,400	
17	1.17		L0168	Gravenhurst Public Library	Gravenhurst	14,066	12,055	
18	1.09		L0052	Espanola	Espanola	5,865	5,364	
19	1.07		L0292	Renfrew	Renfrew	8,772	8,220	
20	1.00		L0210	Mississippi Mills	Almonte	12,379	12,385	
21	0.97		L0371	West Nipissing	Sturgeon Falls	13,701	14,149	
22	0.92		L0045	Cavan Monaghan Public Library Board, Township of	Millbrook	7,901	8,601	
23	0.88		L0209	Smiths Falls	Smiths Falls	7,893	8,978	
24	0.85		L0370	West Lincoln Twp	Smithville	11,832	13,867	
25	0.83		L0059	Hawkesbury	Hawkesbury	8,745	10,551	
26	0.82		L0271	St. Marys Public Library	St. Marys	5,044	6,165	
27	0.82		L0265	Perth East	Milverton	8,051	9,882	
28	0.80		L0048	Carleton Place	Carleton Place	8,235	10,320	
29	0.71		L0287	Ramara Twp	Brechin	5,759	8,110	
30	0.71		L0138	Dryden	Dryden	5,408	7,617	
31	0.71		L0171	Haliburton County	Haliburton	10,120	14,305	
32	0.71		L0477	Leeds and the Thousand Islands Twp	Lansdowne	6,561	9,277	
33	0.68		L0136	Douro-Dummer Twp	Douro	4,072	5,976	
34	0.66		L0126	Kirkland Lake	Kirkland Lake	5,603	8,493	
35	0.66		L0159	Trent Lakes	Buckhorn	3,363	5,105	
36	0.64		L0080	Bonnechere Union	Eganville	3,538	5,544	
37	0.62		L0342	Tay Twp	Port McNicoll	5,836	9,376	
38	0.62		L0487	Alnwick/Haldimand Twp	Grafton	3,902	6,279	
39	0.56		L0500	Trent Hills	Campbellford	7,044	12,604	
40	0.55		L0263	Penetanguishene	Penetanguishene	5,025	9,111	
41	0.51		L0330	Lanark Highlands	Lanark	2,589	5,128	
42	0.48		L0467	Edwardsburgh/Cardinal Twp	Spencerville	3,316	6,959	
43	0.47		L0071	Pembroke	Pembroke	5,116	10,867	
44	0.47		L0469	Elizabethtown - Kitley	Addison	4,524	9,724	
45	0.45		L0014	Arnprior	Arnprior	4,156	9,153	
46	0.44		L0115	Clearview Twp	Stayner	6,000	13,734	
47	0.44		L0472	Grey Highlands	Flesherton	3,500	8,033	
48	0.43		L0095	Parry Sound	Parry Sound	2,670	6,191	
49	0.42		L0255	Otonabee-South Monaghan Twp	Keene	2,807	6,660	
50	0.40		L0010	Augusta Twp	Brockville	2,959	7,430	
51	0.39		L0160	Gananoque	Gananoque	2,000	5,194	
52	0.36		L0117	Cochrane Public Library Board	Cochrane	1,925	5,340	
53	0.36		L0203	Meaford	Meaford	3,961	11,100	
54	0.31		L0152	Elliot Lake	Elliot Lake	3,128	10,218	
55	0.30		L0165	Oliver Paipoonge	Murillo	1,575	5,174	
56	0.28		L0332	Southgate Twp	Dundalk	2,010	7,190	
57	0.21		L0108	Champlain Twp	Vankleek Hill	1,603	7,610	
58	0.17		L0336	West Grey Twp	Durham	2,137	12,286	
59	0.15		L0122	Kapuskasing	Kapuskasing	1,025	7,083	
60	0.14		L0091	La Nation	St-Isidore	1,651	11,668	
61	0.00		L0004	Alfred & Plantagenet Twp	Lefavre	0	8,022	
61	0.00		L0180	Hearst Twp	Hearst	0	5,090	
61	0.00		L0372	West Perth	Mitchell	0	8,919	
61	0.00		L0482	Whitewater Region	Beachburg	0	5,754	

Table 6: Rank Order Table: Electronic Materials Expenditures per capita, by bands, Ontario Public Libraries, 2015 (continued)

Rank	Expenditures for Electronic Materials per capita \$	Library Number	Library Name	City	Total Expenditures for Electronic Materials \$	Population (Resident)
<b>Band 7 (Resident population greater than 2,500 and fewer than 5,001)</b>						
1	2.16	L0384	Laurentian Hills	Deep River	6,068	2,811
2	1.83	L0011	Atikokan	Atikokan	4,742	2,596
3	1.67	L0471	Greenstone	Geraldton	7,440	4,467
4	1.35	L0178	Wawa	Wawa	3,990	2,965
5	1.13	L0290	Red Lake	Balmertown	5,298	4,670
6	1.06	L0496	Madawaska Valley Twp	Barry's Bay	4,027	3,794
7	1.06	L0090	Burk's Falls, Armour & Ryerson Union	Burk's Falls	3,141	2,973
8	0.98	L0355	Tweed	Tweed	4,841	4,955
9	0.94	L0325	French River	Noelville	2,391	2,547
10	0.88	L0196	Marathon	Marathon	2,944	3,353
11	0.85	L0448	Front of Yonge Twp	Mallorytown	2,330	2,752
12	0.74	L0204	Merrickville-Wolford	Merrickville	2,119	2,850
13	0.69	L0145	East Ferris	Astorville	3,305	4,766
14	0.68	L1036	Callander	Callander	2,609	3,864
15	0.67	L0429	Blind River	Blind River	2,395	3,575
16	0.59	L0321	Seguin Twp	Seguin	2,503	4,276
17	0.58	L0002	Admaston/Bromley Twp	Douglas	1,525	2,622
18	0.53	L0463	Marmora and Lake Twp	Marmora	2,173	4,070
19	0.53	L0232	Northeastern Manitoulin and the Islands	Little Current On	1,427	2,706
20	0.40	L0274	Prescott	Prescott	1,708	4,284
21	0.40	L0058	Havelock-Belmont-Methuen Twp	Havelock	1,587	3,992
22	0.36	L0018	Athens Twp	Athens	1,186	3,272
23	0.36	L0051	Deep River	Deep River	1,500	4,193
24	0.35	L0475	Hastings Highlands Twp	Maynooth	1,465	4,170
25	0.24	L0318	Stirling-Rawdon	Stirling	1,215	4,978
26	0.18	L0303	Sables-Spanish Rivers Twp	Massey	500	2,744
27	0.13	L0062	Bancroft Town	Bancroft	519	3,880
28	0.13	L0110	Centre Hastings	Madoc	595	4,543
29	0.09	L0016	Asphodel-Norwood	Norwood	358	4,041
29	0.00	L0107	Casselman	Casselman	0	3,129
29	0.00	L0238	Lake of Bays Twp	Baysville	0	3,284
29	0.00	L0278	Iroquois Falls	Iroquois Falls	0	4,106
29	0.00	L0339	Tyendinaga Twp	Shannonville	0	3,582
<b>Band 8 (Resident population fewer than 2,501)</b>						
1	355.71	L0307	Simcoe County Co-operative	Midhurst	263,940	742
2	9.60	L0375	White River Twp	White River	5,824	607
3	8.33	L0430	Cartier	Cartier	2,500	300
4	7.73	L0144	Ear Falls Twp	Ear Falls	7,935	1,026
5	7.59	L0240	Larder Lake Public Library	Larder Lake	5,581	735
6	5.78	L0377	Whitestone-Hagerman Memorial	Dunchurch	5,956	1,030
7	5.19	L0291	Red Rock Twp	Red Rock	4,893	942
8	4.93	L0184	Hornepayne Twp	Hornepayne	5,180	1,050
9	4.28	L0073	Grand Valley Library Board	Grand Valley	10,491	2,450
10	4.22	L0131	Rainy River	Rainy River	2,710	642
11	4.02	L0183	Hilton Union	Hilton Beach	1,678	417
12	3.85	L0162	Georgian Bay Twp	Honey Harbour	7,948	2,063
13	3.77	L0020	Mattice-Val Cote Twp	Mattice	2,494	661
14	3.41	L0450	Tudor & Cashel Twp	Gilmour	2,000	586
15	3.23	L0211	Moonbeam Twp	Moonbeam	3,352	1,039
16	2.99	L0123	Kearney & Area	Kearney	2,513	841
17	2.84	L0280	James Twp	Elk Lake	1,204	424
18	2.82	L0301	Schreiber Twp	Schreiber	3,180	1,126
19	2.51	L0327	Ignace	Ignace	3,021	1,202
20	2.49	L0179	Head, Clara & Maria	Stonecliffe	500	201
21	2.42	L0202	Perry Twp	Emsdale	4,322	1,787
22	2.30	L0380	Wollaston and Limerick Union	Coe Hill	2,307	1,004
23	2.04	L0021	Temagami	Temagami	1,671	820
24	1.75	L0098	Emo Twp	Emo	1,849	1,056
25	1.68	L0382	North Kawartha Twp	Apsley	3,571	2,126



Table 6: Rank Order Table: Electronic Materials Expenditures per capita, by bands, Ontario Public Libraries, 2015 (continued)

Rank	Expenditures for Electronic Materials per capita \$	Library Number	Library Name	City	Total Expenditures for Electronic Materials \$	Population (Resident)
<i>Band 8 (Resident population fewer than 2,501) (continued)</i>						
26	1.58	L0199	McGarry Twp	Virginiatown	927	586
27	1.48	L0346	Thessalon	Thessalon	1,896	1,280
28	1.45	L0112	Chapleau Twp	Chapleau	3,070	2,116
29	1.38	L0312	South River-Machar Union	South River	2,558	1,849
30	1.31	L0106	Carlow/Mayo Public Library	Bancroft	1,169	895
31	1.28	L0344	Terrace Bay Twp	Terrace Bay	1,750	1,365
32	1.27	L0200	McKellar Twp	McKellar	1,282	1,012
33	1.23	L0374	Westport	Westport	730	594
34	1.22	L0385	Killaloe, Hagarty & Richards Twp	Killaloe	2,710	2,229
35	1.20	L0017	Assignack Twp	Manitoulin Island	1,148	960
36	1.17	L0013	Armstrong Twp	Earlton	1,425	1,216
37	1.12	L0427	Dubreuilville Twp	Dubreuilville	712	635
38	1.10	L0225	Nipigon Twp	Nipigon	1,789	1,631
39	1.09	L0082	Billings Twp	Kagawong	550	507
40	1.04	L0083	Black River-Matheson Twp	Matheson	2,417	2,332
41	1.01	L0284	Sundridge-Strong Union	Sundridge	2,247	2,234
42	0.95	L0134	Mattawa	Mattawa	2,000	2,114
43	0.90	L0044	Bruce Mines & Plummer Additional Union	Bruce Mines	1,095	1,216
44	0.89	L0357	Val Rita-Harty Twp	Val Rita	690	775
45	0.86	L0447	Markstay-Warren	Markstay	2,037	2,366
46	0.85	L0194	Magnetawan Twp	Magnetawan	988	1,165
47	0.79	L0102	Cobalt Twp	Cobalt	889	1,133
48	0.75	L0497	Loring, Port Loring and District Local Services Board	Port Loring	600	800
49	0.74	L0314	St. Joseph Twp	Richards Landing	890	1,201
50	0.64	L0275	Prince Twp Public Library	Prince Township	655	1,031
51	0.55	L0195	Manitouwadge	Manitouwadge	994	1,818
52	0.49	L0478	Greater Madawaska Twp	Calabogie	1,226	2,485
53	0.43	L0005	Addington Highlands Twp	Flinton	747	1,755
54	0.36	L0109	Central Manitoulin Twp	Mindemoya	700	1,958
55	0.29	L0189	Huron Shores	Iron Bridge	500	1,723
56	0.24	L0302	Gore Bay Union	Gore Bay	410	1,684
57	0.17	L0465	Gogama LSB	Gogama	80	475
58	0.14	L0322	Britt Area	Britt	133	940
59	0.00	L0050	Dorion Twp	Dorion	0	340
59	0.00	L0054	Englehart	Englehart	0	1,257
59	0.00	L0055	Fauquier-Strickland Twp	Fauquier	0	525
59	0.00	L0084	Bonfield	Bonfield	0	2,016
59	0.00	L0250	Opasatika	Opasatika	0	221
59	0.00	L0261	Phelps	Redbridge	0	1,500
59	0.00	L0308	Sioux Narrows Nestor Falls Twp	Sioux Narrows	0	720
59	0.00	L0310	Smooth Rock Falls	Smooth Rock Falls	0	1,376
59	0.00	L0311	South Algonquin Twp	Whitney	0	1,211
59	0.00	L0313	St. Charles	St. Charles	0	1,282
59	0.00	L0323	Deseronto	Deseronto	0	1,835
59	0.00	L0343	Tehkummah Twp	Tehkummah	0	406
59	0.00	L0381	Spanish Twp	Spanish	0	696



Table 6: Rank Order Table: Electronic Materials Expenditures per capita, by bands, Ontario Public Libraries, 2015 (continued)

Rank	Expenditures for Electronic Materials per capita \$	Library Number	Library Name	City	Total Expenditures for Electronic Materials \$	Population (Resident)
<i>First Nations' Libraries</i>						
1	18.73	L0413	Ojibways of Onigaming FN	Nestor Falls	8,707	465
2	9.99	L0404	Garden River FN	Garden River	12,202	1,222
3	9.77	L0439	Temagami FN	Bear Island	2,336	239
4	4.74	L0456	Ojibways of the Pic River FN	Heron Bay	2,500	528
5	3.06	L0418	Shawanaga FN	Nobel	557	182
6	1.87	L1035	Aundeck-Omni-Kaning FN	Little Current	684	365
7	1.69	L0390	Alderville FN	Alderville	525	311
8	1.06	L0415	Saugeen FN	Southampton	2,000	1,890
9	0.75	L0397	Chippewas of Kettle & Stony Point FN	Kettle and Stony Point Fir	992	1,328
10	0.64	L0391	Algonquins of Pikwakanagan FN	Golden Lake	299	464
11	0.60	L0405	Mohawks of the Bay of Quinte FN	Tyendinaga Mohawk Teri	1,300	2,160
12	0.43	L0406	M'Chigeeng FN	M'Chigeeng First Nation	401	934
13	0.34	L1084	Sachigo Lake FN	Sachigo Lake	171	497
14	0.34	L0402	Curve Lake FN	Curve Lake, ON	262	779
15	0.29	L0426	Wikwemikong FN	Wikwemikong	901	3,150
16	0.22	L0420	Six Nations FN	Ohsweken	2,811	12,606
17	0.18	L0462	Bkejwanong FN	Wallaceburg	423	2,326
18	0.00	L0393	Beausoleil First Nation Public Library	Christian Island	0	629
18	0.00	L0394	Big Grassy FN	Morson	0	250
18	0.00	L0396	Chippewas of Georgina Island FN	Sutton West	0	203
18	0.00	L0398	Chippewas of Rama FN	Rama	0	715
18	0.00	L0400	Chippewas of the Thames FN	Muncey	0	971
18	0.00	L0403	Dokis FN	Via Monetville	0	176
18	0.00	L0407	Magnetawan FN	Britt	0	75
18	0.00	L0408	Mohawks of Akwesasne FN	Cornwall	0	9,601
18	0.00	L0409	Naothamegwanning FN	Naothamegwanning	0	747
18	0.00	L0410	New Credit FN	Hagersville	0	941
18	0.00	L0411	Chippewas of Nawash FN	Warton	0	710
18	0.00	L0412	Nipissing FN	Garden Village	0	956
18	0.00	L0416	Seine River FN	Seine River FN	0	344
18	0.00	L0417	Serpent River FN	Cutler	0	359
18	0.00	L0419	Sheshegwaning FN	Sheshegwaning	0	112
18	0.00	L0422	Thessalon FN	Thessalon	0	106
18	0.00	L0423	Wasauksing FN	Parry Sound	0	392
18	0.00	L0424	Atikameksheng Anishnawbek Band No. 6 FN	Whitefish First Nation	0	377
18	0.00	L0425	Whitefish River FN	Birch Island	0	401
18	0.00	L0428	Mattagami FN	Gogama	0	170
18	0.00	L0431	Delaware FN	Thamesville	0	235
18	0.00	L0432	Sagamok Anishnawbek FN	Massey	0	1,567
18	0.00	L0438	Iskatewizaagegan No. 39 FN	Shoal Lake	0	319
18	0.00	L0440	Mississaugas of Scugog Island FN	Port Perry	0	48
18	0.00	L0446	Rainy River FN	Emo	0	437
18	0.00	L0453	Wahta Mohawk FN	Bala	0	303
18	0.00	L0459	Mississauga FN	Blind River	0	392
18	0.00	L0460	Henvey Inlet FN	Pickering	0	189
18	0.00	L0464	Michipicoten FN	Wawa	0	65

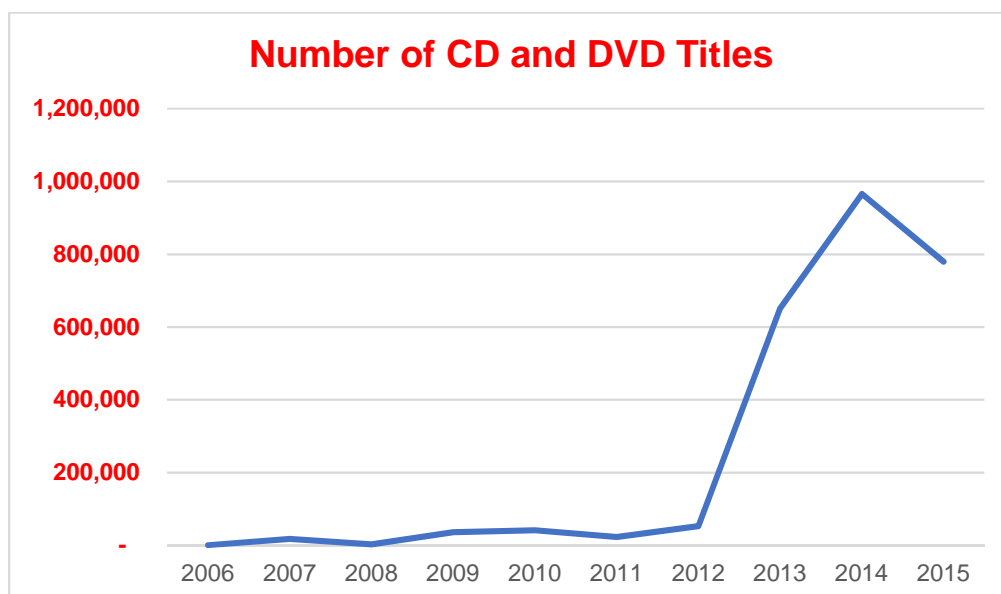
## Table 7: Holdings of Electronic Resources

Table 7 reports summary data for the 302 libraries from 2006-2015. In addition to information on these electronic resources, the table includes related expenditure figures: “Electronic Materials Expenditures” and data on more traditional circulating titles held.

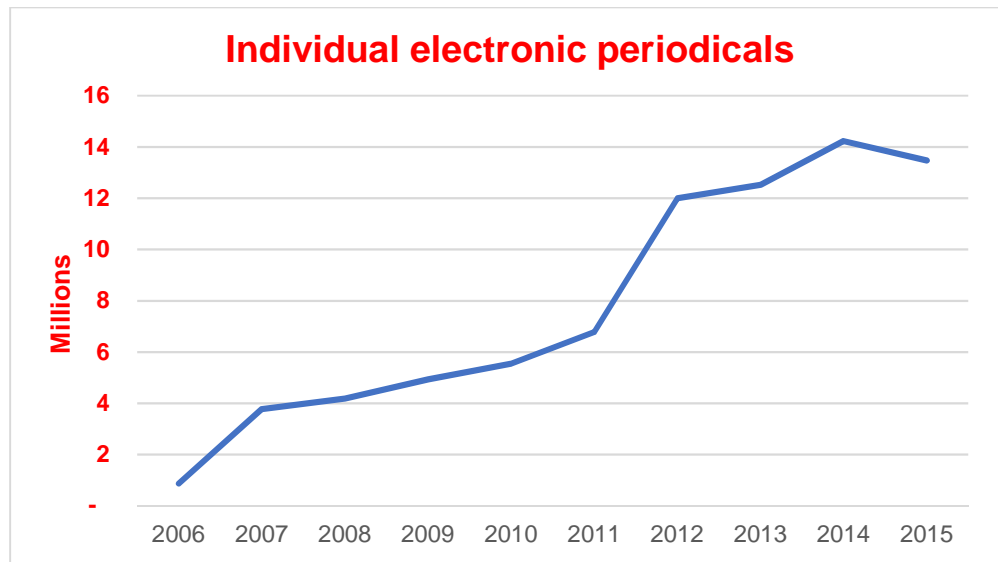
The right-hand columns have percentage changes over three different ranges. The first is for the whole decade: how much did the holdings change over this period? The second column has changes in percentages from 2011-2015. We added a third column to this format to show changes from 2014-2015. The reader will note that some holdings have fallen in that interval. Some of the holdings of these resources have peaked.

The data collected by the Ministry has separate counts by language for the various formats. The earliest data in this category we have does not have totals by the format so they were calculated by adding the three: English, French, and Other for the various formats.

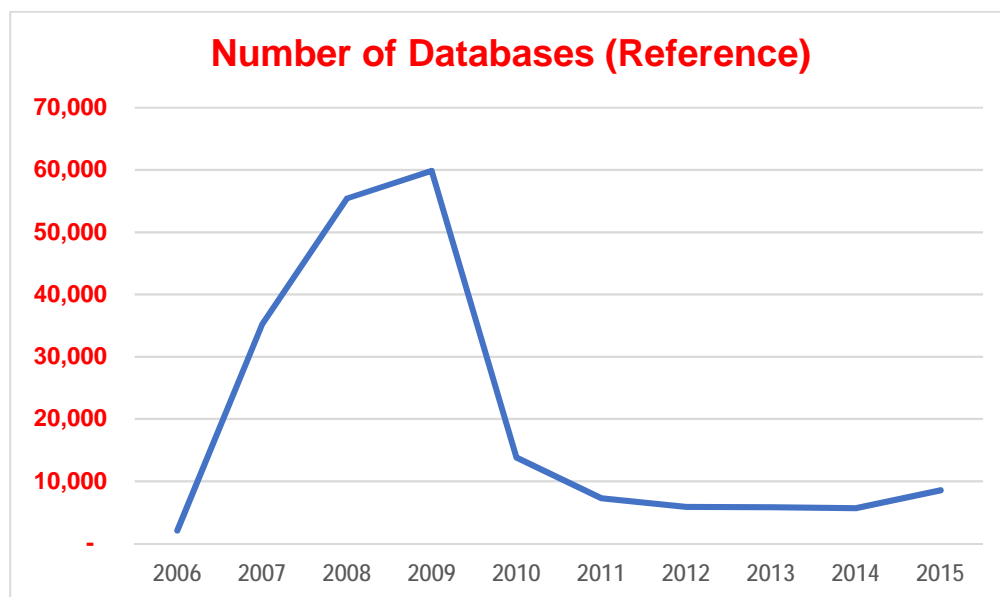
The variable in Table 7 showing the largest percentage increase over the decade is number of CD and DVD Titles. Note the drop from 2014 to 2015:



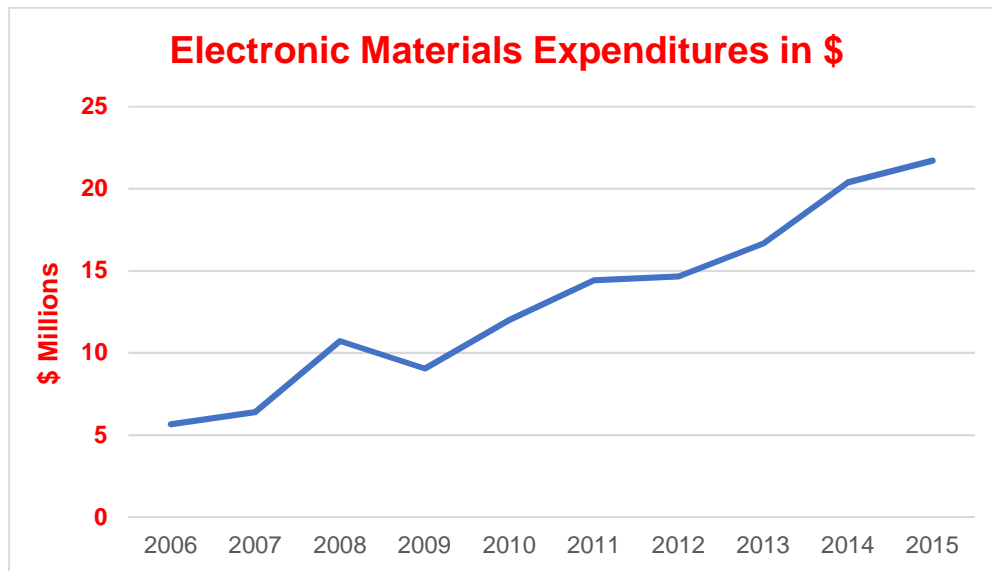
Of course, the growth figure starts out with a low in 2006 which does cause the percent figure to be quite large. Similarly, Electronic periodicals fell from 2014-2015 but with a high percent growth over the decade:



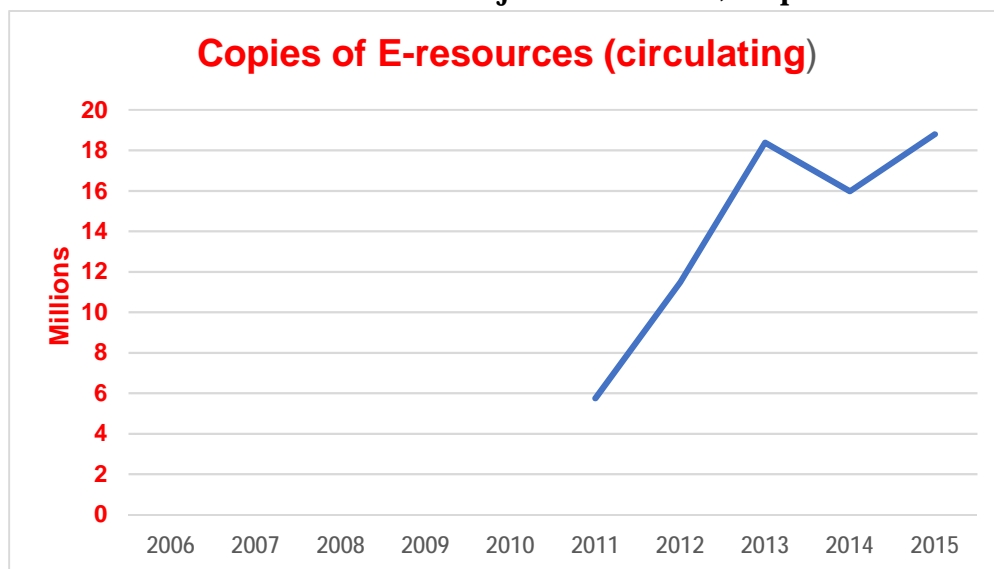
A similar drop has been shown in earlier reports for databases but that peak was in 2009 and we have noted it in earlier reports:



Meanwhile, Electronic Materials Expenditures are increasing steadily in recent years:



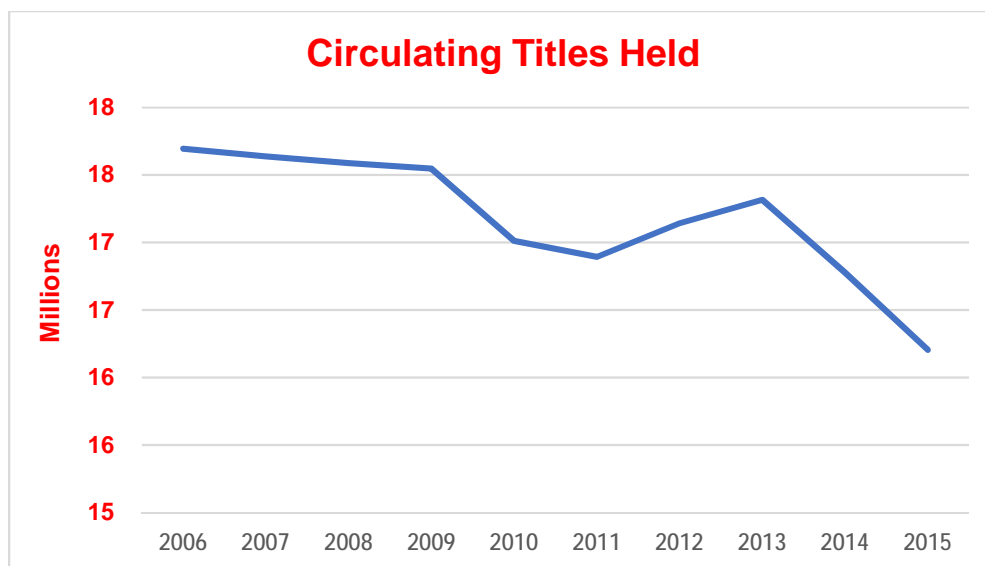
A newer variable has been collected just since 2011, Copies of E-resources:



The reader will also note the count of E-readers in Table 7 for 2012-2015. This is a newly collected variable, too.

What we are trying to do is understand how Ontario's libraries are adapting to the digital age. It appears that even here, the types of electronic formats peak. We mentioned CDROM towers in the last report as an example of a digital tool that has gone from cutting edge to now essentially obsolete.

One more symbol of the changes in the library environment is Circulating Titles Held:



This is not exactly what one might think but it seems to be mostly titles in more traditional formats—but not exclusively. We write this not having yet seen the Annual Survey Instructions for 2014 or 2015 but examining several before that for the definition of what is collected here seems to have identical text:

A title is a unique catalogue entry, and includes books, tapes, videos, multi-media sets etc. Multiple copies of a single title count as one title.

**Does this definition include electronic resources?**

Do not count a title, volume or electronic resource in more than one category.

The categories, then, are mutually exclusive.

**In any case, these charts and the data in Table 7 supply concrete demonstration of what we knew: not only that the materials in libraries are changing from traditional to electronic materials but that those electronic formats are also changing.**

Table 7: Holdings of Electronic Resources, All Ontario Public Libraries, 2006-2015

	Year	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	% change	% Change	% Change	
	# of libraries reporting	302	302	302	302	302	302	302	302	302	302	2006-2015	2006-2015	2014-2015	
C1.3.2. - No. of CD and DVD Titles (Reference)		4,598	5,577	6,158	34,206	43,172	30,648	35,555	26,655	26,611	27,546	499	-10	3.5	
C1.3.3. - No. of copies of CD and DVDs		8,846	10,119	8,957	40,282	48,503	33,371	38,303	30,510	27,835	27,558	212	-17	-1.0	
C1.3.1. - No. of Databases (Reference)		2,067	35,256	55,462	59,871	13,812	7,296	5,886	5,853	5,657	8,532	313	17	50.8	
C3.2.4. - No. of individual electronic periodicals titles (Circulating)		870,219	3,775,185	4,190,217	4,929,910	5,551,230	6,790,046	12,005,660	12,527,424	14,233,317	13,480,642	1,449	99	-5.3	
C3.2.1. - No. of Database Subscriptions (Periodicals)		1,476	19,467	22,083	6,815	8,959	4,887	4,510	7,186	6,084	5,363	263	10	-11.9	
C3.2.3. - No. of copies of CD and DVDs (Periodicals)		1,560	18,810	3,278	37,920	42,925	25,436	54,214	820,072	1,019,214	779,476	49,866	2,964	-23.5	
C3.2.2. - No. of CD and DVD Titles		629	17,884	2,528	36,498	41,736	23,374	53,199	651,236	966,161	779,329	123,800	3,234	-19.3	
C2.3.2. - No. of copies of CD and DVDs		65,023	76,579	61,357	2,231,104	2,775,871	3,203,333	3,591,907	3,700,844	3,769,125	3,860,638	5,837	21	2.4	
C2.3.1. - No. of CD and DVD Titles (Circulating)		39,042	52,798	42,618	1,185,886	1,412,806	1,648,157	1,878,841	2,038,534	2,131,793	2,115,013	5,317	28	-0.8	
C2.3.4. - No. of Copies of E-resources, including E-books (Circulating)							5,757,667	11,487,765	18,381,128	15,980,259	18,799,338			227	
C2.3.3. - No. of Titles of E-resources, including E-books (Circulating)							4,881,128	10,589,719	17,130,688	11,479,321	15,235,038			212	
E1.2 - E-readers								935	1,135	1,052	956				
C2.1. - Titles Held (Circulating)		17,695,480	17,637,922	17,588,816	17,547,269	17,012,715	16,895,140	17,142,311	17,315,435	16,778,042	16,205,240	-8	-4	-3.4	
	Total for the decade														
<b>Electronic Materials Expenditures</b>															
	\$														
<b>Total</b>		131,688,716	5,658,298	6,395,926	10,716,024	9,045,600	12,003,554	14,426,501	14,668,956	16,668,324	20,393,181	21,712,352	284	51	6.5
<b>Per library</b>			18,736	21,179	35,484	29,952	39,747	47,770	48,573	55,193	67,527	71,895			

## Sources of data used in these reports

The primary source of data on Ontario's public libraries used for the Federation's Reports investigating the libraries is from the CSV files made available by the Ministry of Tourism, Culture, and Sport for the years 1999-2015 under an “Open Government Licence.” The data from first two years proved sufficiently different from the rest that for these preliminary reports, we focused on the 2001-2010 data for the first in this series of reports. For the second report, with the addition of the data for 2011-2013, we extended the series from 2001-2013. This third Report focusses on 2006-2015 and includes the just-released 2015 data. The FOPL data file is a spreadsheet brings together the data from the Ministry's separately issued csv files from 2000-2015 in one longitudinal file—that is, all years, all libraries, all variables. It has 6,119 observations (one observation equals one library for one year,) 340 variables, and data from 476 libraries. Not all variables nor data from all libraries are reported each year. These longitudinal data are the source for these reports and the FOPL Peer studies.

CSV files can be read into spreadsheet programs for manipulation and without rekeying the data. Rekeying is a source of error in data work and to be avoided if at all possible. The Web location for these files is at:

<https://www.ontario.ca/arts-and-culture/ontario-public-library-statistics>

The earlier distribution was by PDF formatted files. These were broken down by size bands—which bands we continued here--and type of the libraries and then by similar variables, for instance: “Library Financial,” “Library Holdings,” and the like. Depending on the year, there were on the order of a varying number of separate reports of the data for each year. The count of those files was around 70 a year. Summary data for the year could be found in “Summary and Comparisons.” Publication this way follows traditional library practice with the more modern PDF format. One could print only those size ranges one is interested in. However, given that these are in PDF and would have to be rekeyed and that there are around 70 such files for each year, using this source of data for a project like we have done with the Federation would have been daunting.



## Anomalies

As discussed in passing in the main body of the report, there are anomalous values that were changed from the FOPL spreadsheet to use here. That spreadsheet has the values as originally reported and those values are not changed in the recompiled version. They are changed for this report.

The role of the compiler is different from that of the analyst. The compiler's—or recompiler's—task is to make the copy of the recompiled data identical to the originals. That is, to treat the published data as an attempt to recreate the urtext, the origin of the data.

The FOPL dataset is a recompilation of data annually compiled and published by the Ministry. It is one of those characteristics of library data that to see trends, such data must be recompiled because such data are normally issued annually only. Such recomplings should follow the lessons of the first such recompilation: *Cumulated ARL University Library Statistics, 1962-63 through 1978-79* by Kendon Stubbs and David Buxton. To quote a seminal statement in its *Introduction*:

These vagaries in data collection over the years stand here as they appeared in the original annual issues of the statistics (unless corrections were reported by individual libraries). What was or was not counted in the past library data collection practices has proved too well hidden in the mists of time. (page v.)

Just so: “...as they appeared in the original...” The original publication is treated as the textual authority except in rare circumstances such as documented, authoritative corrections. The Hippocratic Oath of data: first, do no harm. We do not know who will come behind us with techniques and knowledge to make sense of what may seem strange to us. If we change numbers for a compilation based on our limited notions of possibilities, we may constrict those who come next. We owe it to them to do no harm.

On the other hand, the analyst takes the data and tries to make sense of them and that is often difficult. The analyst is also a bit freer to note odd numbers and to “fix” the problem, as long as those “fixes” are reasonable, documented, and *suitable care* is exercised. An attempt to “fix” the problem a tricky matter. Do not do it in compilation; in analysis do it carefully. Fortunately, the Ministry’s data have so few such cases that working with them rarely turns up anomalies. There were two such groups of

alterations of the data used in this Report and we now discuss them. We take the simpler case first.

Here are the reported numbers of resident population for Clarington Public Library (Library number L0113) for 2009-2015:

2009	86,650
2010	87,900
2011	89,900
2012	8,861
2013	89,184
2014	89,931
2014	91,726

The value for 2012 is unlikely to be true. If it were true, we would have certainly learned about it in the news—and probably have seen the movie by now! It violates basic common sense.

It is a fact that library data do have episodic swings that generally are the result of changes in their environments and analyzing library data must keep this characteristic in mind. Normally, such practices as grouping and using ratios will mitigate the effects of such gyrations and it is a good practice not to change the received text for light and transient causes. In this case, populations are not subject to swings like are found in funding, for example. What we did was to take the average of the 2011 and 2013 values and replace the 2012 figure with that value: 89,542. It is unlikely this is the correct number but it must be closer than 8,861 is to the true—but unknown and likely unknowable—number.

Given the importance of per capita calculations on many of the ratios reported here, this 2012 value has a disproportionate effect on the results reported here.

The second set of values affect two libraries and the reader may have guessed they involve expenditure categories. There are anomalous expenditure values for 2006. To understand them, we present the data in question from these First Nations' libraries for 2004-2008.

First for Sheshegwaning FN (Library Number L0419). In 2006, it had a resident population of 90. Our focus in both cases is on the values for 2006:

	<b>Total Operating Expenditures</b>	<b>General Materials Expenditures</b>	<b>Staff Expenditures</b>
<b>2004</b>	<b>19,670</b>	<b>0</b>	<b>14,170</b>
<b>2005</b>	<b>20,138</b>	<b>0</b>	<b>14,170</b>
<b>2006</b>	<b>1,881,740</b>	<b>1,707,222</b>	<b>169,018</b>
<b>2007</b>	<b>32,077</b>	<b>5,592</b>	<b>18,979</b>
<b>2008</b>	<b>30,034</b>	<b>368</b>	<b>22,460</b>

And then, Henvey Inlet FN (Library Number L0460), again, note 2006:

	<b>Total Operating Expenditures</b>	<b>General Materials Expenditures</b>	<b>Staff Expenditures</b>
<b>2004</b>	<b>26,290</b>	<b>500</b>	<b>24,300</b>
<b>2005</b>	<b>26,290</b>	<b>500</b>	<b>24,300</b>
<b>2006</b>	<b>441,590</b>	<b>35,403</b>	<b>24,300</b>
<b>2007</b>	<b>7,600</b>	<b>0</b>	<b>0</b>
<b>2008</b>	<b>21,600</b>	<b>0</b>	<b>14,000</b>

While it is possible these large numbers are correct, it seems unlikely, doesn't it? In fact, the influence of these numbers is so great that they affect the total operating expenditures for all 302 libraries by increasing the 2006 total by \$2.3 million and the average by \$7,700 let alone their effect on the summaries from the First Nations' libraries. The task at hand is to understand trends for all these 302 libraries as well as the various bands. As it turns out in our study, the First Nation's libraries and the first year of our dataset (2006) is particularly important.

As above with Clarington Public Library, we have replaced the 2006 numbers for these variables at the two libraries by the average of the values from 2005 and 2007:

	<b>Total Operating Expenditures</b>	<b>General Materials Expenditures</b>	<b>Staff Expenditures</b>
<b>2004</b>	19,670	0	14,170
<b>2005</b>	20,138	0	14,170
<b>2006</b>	<b>26,107.50</b>	<b>2,796</b>	<b>16,574.50</b>
<b>2007</b>	32,077	5,592	18,979
<b>2008</b>	30,034	368	22,460

For Henvey Inlet FN, the numbers used here:

	<b>Total Operating Expenditures</b>	<b>General Materials Expenditures</b>	<b>Staff Expenditures</b>
<b>2004</b>	26,290	500	24,300
<b>2005</b>	26,290	500	24,300
<b>2006</b>	<b>16,945</b>	<b>250</b>	<b>12,150</b>
<b>2007</b>	7,600	0	0
<b>2008</b>	21,600	0	14,000

Staff expenditures do not figure in these reports but General Materials Expenditures and the Total Operating expenditures do. What is the effect of the changes we have made on the Report?

The changes affect the summary data on Table 1 on two pages: the first, the Summary for all 302 libraries, and the last page, that of the summary for the 42 First Nations' libraries. In those two cases, the changes affect data for 2006 for the Total Operating Expenditures, General Materials Expenditures, and, hence the Total Materials Expenditures. Electronic Materials Expenditures were not affected. It also affects the 10-year summary numbers shown in purple on Table 1. The accompanying table is designed to document the imputed values used here and the raw values, were they

used in Table 1's various calculations. The table is on the following page.

We used the same headers to make comparison easier but only include the affected variables: Total Operating Expenditures, Total Materials Expenditures, and General Materials Expenditures. Total Materials Expenditures is the sum of General Materials Expenditures plus Electronic Materials Expenditures. In 2006, this is a calculated number but in 2011, and following, it was reported in the Ministry's data. Electronic Materials Expenditures were not affected by these anomalies.

The green column is what is included here and the gray column is what the values in Table 1 would have been, using the anomalous values. Note the General Materials Expenditures per capita for the anomalous column in the lower right-hand corner: \$429.51. These per capita are the arithmetic mean of the separate values of the libraries, not the number based on a calculation of the aggregates. That second number is perfectly valid for many purposes but ours has focused on the experience of the individual libraries while taking aggregates would tend to give us a picture weighted by the experience of the larger libraries.

**Table 8: Anomalous and Imputed Values for Table 1**

**Table 1: Summary Characteristics of Ontario Public Libraries, 2006-2015, All Libraries Reporting Each Year**

	<b>Table 1 Affected variables With imputed 2006 data</b>		<b>Table 1 Affected variables With anomalous 2006 data</b>	
		2006		2006
# of libraries reporting	Totals for 2006-2015	302	Totals for 2006-2015	302
<b>EXPENDITURES in \$</b>				
<b>Total Operating Expenditures</b>	<b>6,196,710,511</b>	534,730,887	<b>6,198,990,788</b>	537,011,164
Per library		1,770,632		1,778,183
Expenditures per capita		54.11		65.56
<b>Total Materials Expenditures</b>				
Total	<b>670,405,618</b>	60,621,243	<b>672,145,197</b>	62,360,822
<b>General Materials Expenditures</b>				
Total	<b>538,716,902</b>	54,962,945	<b>540,456,481</b>	56,702,524
Per library		181,997		187,757
per capita		7.83		65.57

**Table 1 (Continued) Summary Characteristics of Ontario Public Libraries, 2006-2015, First Nations' Libraries**

		2006		2006
# of libraries reporting	Totals for 2006-2015	42	Totals for 2006-2015	42
<b>EXPENDITURES in \$</b>				
<b>Total Operating Expenditures</b>	<b>22,912,629</b>	1,965,950	<b>25,192,906</b>	4,246,227
Per library		46,808		101,100.64
Expenditures per capita		94.38		603.85
<b>Total Materials Expenditures</b>				
Total	<b>1,986,393</b>	237,526	<b>3,725,972</b>	1,977,105
<b>General Materials Expenditures</b>				
Total	<b>1,802,738</b>	226,028	<b>3,542,317</b>	1,965,607
Per library		5,382		46,800
per capita		14.36		429.51