

## Understanding the Findings from the $\mathbf{2 0 2 2}$ Library Services Return on Investment (ROI) Calculator

Now that you have completed entering the data into the ROI Calculator, what do the results mean?

## 1) Ratio of Library Benefits to Spending

Cell G70 shows the Grand Total Benefits of Circulation \& Library Services at your library.
This figure is compared with your library's 2022 Total Operations spending to create a ratio of Direct Library Benefits to spending in your community. This figure is the initial measure of the Return on Investment of your library and is shown in cell G74.
For example, if your library's ratio of benefits to spending was 2.5 , this would mean that for every $\$ 1.00$ spent by your library, your community received $\$ 2.50$ in DIRECT BENEFITS from using library materials and services.

## 2) Economic Multiplier Effects

Cell B77 shows the most recent Household Consumption Multiplier from the Bureau of Economic Analysis. This multiplier indicates that every time a consumer spends $\$ 1.00$ in Ohio, an additional 27.16 cents in economic activity is generated. This multiplier is based on 2020 regional economic data.
Libraries allow users to save money by borrowing items and receiving services that they would otherwise have to rent or purchase. This means that libraries enhance the purchasing power of users by enabling them to spend their money in other ways. The true impact of libraries on the economy will include the multiplier effects of this freed up consumer spending. The value of library benefits including the multiplier effect is shown in cell G78.
Cell G79 shows the ratio of Benefits to Spending for your library including economic multiplier effects. This figure is the cumulative Return on Investment of your library.
For example, if your library's ratio of benefits including economic multiplier effects to spending was 3.5 , this would mean that for every $\$ 1.00$ spent by your library, the TOTAL ECONOMIC BENEFIT provided to your community is $\$ 3.50$.

## 3) The ROI Calculator does NOT include every type of Library Program

The intention of the ROI Calculator is to quantify the benefits provided by Ohio's 251 public library systems in a simple and understandable fashion.
Some services and programs have been omitted from this calculator (i.e. resume and job search workshops, personal finance workshops, GED training and testing, reading and literacy programs, etc.).
Additionally, the ROI calculator does not include the numerous "non-traditional" items that many Ohio Libraries circulate. These items include Roku streaming devices, musical instruments (especially ukuleles), board games, puzzles, computer games, telescopes, bike locks, kitchen items, laptops, tablets and Kindles, blood pressure monitors, museum passes, air quality monitors, sporting equipment, headphones, portable chargers, and others.
While the services and programs that have been omitted tend to be harder to quantify than those that have been included, that does not mean that they do not have value. Please make sure you mention these and any other additional services when you discuss your library's Rate of Return with policy-makers and constituents.
The fact that there are some library services and programs that are not included in the ROI calculator actually strengthens the findings produced by the calculator. This is because it can be unequivocally stated that whatever your library's return on investment computes to be, it will be an understatement of the true value provided by your library to your community.

## Notes on Prices \& Costs for 2022 Library Services ROI Calculator

II. Circulation of Physical Books, DVDs, CDs etc...

| Category | Price per ItemExplanation <br> $\$ 23.80=$ the Cincinnati and Hamilton County Public Library 2019 average non-discounted price of circulating <br> books purchased. "Sellback" reflects fact that books have resale value (assumed to be $50 \%$ ) to consumers. Net <br> value is thus $50 \%$ of the $\$ 23.80$ price. |  |  |
| :--- | :---: | :---: | :---: |
| Books | $\$ 23.80$ | $\$ 6.00$ | $\$ 6.00=$ average cost per issue of a typical magazine |
| Periodicals | $\$ 4.50$ | $\$ 2.25=2$ day Redbox cost per DVD rental in 2022 |  |

III. Electronic Circulation (eBooks, streamed movies, music downloads, etc..)

## Category

eBooks

Audiobook Download

Magazine Digital Downloads
Movies Streamed
Music Downloads

## IV. Reference Services

Non-circulating Periodicals

Use of Reference Materials

Reference Questions \& Answers
Electronic Database Usage Method A
Electronic Database Usage Method B
V. Computer \& Technology Services

|  | Price $/ \mathbf{H}$ |
| :--- | ---: |
| Patron Computer Use | $\$ 29.40$ |
|  | Price $/ \mathbf{H}$ |

Wi-Fi "Hot Spot" Lending

Computer Training

VI . Other Library Services
Meeting Room Use

Children's Library Programs
Young Adult Library Programs
Adult Library Programs
Homework Help Sessions

Summer Food Programs
Outreach Services (Bookmobile etc.)$\$ 21.00$
$\$ 6.00$
$\$ 4.00$
$\$ 0.99$

Avg. Cost
\$106.75

## Value/Hr

$\$ 50.00$
Value/Use
$\$ 10.00$
Value/Hour
$\$ 40.00$

Price/Hr

Value/Hr
\$25.00

## Value/Participant

Value/Participant

Value/Participant

Price/Hr
$\$ 60.00$
Cost/Meal Cost Per Trip

Price per Item Explanation
$\$ 12.50$ per book = approximate average price of eBooks on Amazon (new releases $\$ 14.99$, older books $\$ 9.99$, recent books in between at \$10.99-\$13.99)
$\$ 21.00=$ estimated average price per book (including sales tax) of purchasing an audiobook from Audible. This cost is based on an assunmption of 2 books purchased per month at a membership price of $\$ 14.95$ with the 2 nd book costing $\$ 24.00$
$\$ 6.00=$ average cost per issue of a typical magazine
iTunes, Amazon Prime, \& Cable On-Demand prices are $\$ 5.99$ for new movies and $\$ 3.99$ for older movies. Avg. Netflix movie prices vary with usage but are generally lower.
$\$ 0.99=$ Mid-tier price per song on i-Tunes

Value/Use Explanation
$\$ 6.00 \quad \$ 6.00=$ average cost per issue of a typical magazine
$\$ 40.00$ per hour $=$ average cost of genealogy, job $\&$ employment, $\&$ financial professional on an hourly basis

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## Price/Item Explanation

$\$ 14.50 \quad$ T-Mobile portable hot spot $=\$ 29 /$ month. Libraries typically rent HotSpots for 2 weeks
$\$ 106.75=2017(\$ 117.00) \& 2018(\$ 96.50)$ average non-discounted price of library reference books purchased. Like circulating books, reference books have resale value. Thus, net price reflects $50 \%$ "sellback" value.
$\$ 50.00$ per hour $=$ estimate of hourly cost of private research service equivalent to Master of Library Science
$\$ 10.00$ per use $=$ estimate of average cost of online article retrieval from a variety of sources
$\$ 29.40=60$ minutes $* 49$ cents per minute (Kinkos cost for computer usage)

Many Starbucks, Panera Bread, and other similar businesses offer free Wi-Fi (often with time limits), however you must be a paying customer in order to access it. $\$ 5$ reflects a reasonable average expenditure.
$\$ 25.00$ per hour $=$ estimated cost of private computer training

## Rent/Event Explanation

$\$ 50.00 \quad \$ 50.00$ per hour $=$ average cost of renting a mid-sized meeting room in a hotel or other private venue
$\$ 20.00 \quad$ Approximate per person price to engage a magician, puppeteer, or similar entertainer
$\$ 15.00$ Library personnel estimate that young adult programs are less costly than children's programs.
$\$ 25.00$ Adult library programs are the most costly, including author visits, genealogists \& other professionals

Sylvan Learning Center charges $\$ 60 / \mathrm{hr}$. Assumption that 3 children per hour receive assistance implies $\$ 20$ per student.
$\$ 2.50 \quad \$ 2.50$ per meal = inflation-adjusted average price of ODE Summer Food Service breakfasts, lunches and snacks $\$ 3.03 \quad \$ 2.90=$ Avg trip of 5 miles $* 60.55$ cents per mile (IRS 2022 average cost per mile)

