

ARL Inflation-Adjusted Expenditure Data

Historical materials & salary expenditures of *Association of Research Libraries* member libraries in inflation-adjusted 2017 dollars.

Note: 2017 data is preliminary and will be updated when final data is released.

Data source and notes	Median library expenditures among ARL members, 1963-..	Percentage change in expenditures, 1987-present	Inflation-adjusted expenditures for individual ARL libraries
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Data source and notes:

Data was downloaded from ARL Statistics ® <http://arlstatistics.org/analytics>

Expenditures adjusted for inflation using Bureau of Labor Statistics' 'Consumer Price Index - All Urban Consumers' benchmark:

<http://data.bls.gov/cgi-bin/cpicalc.pl>

To compute expenditures in current 2017 inflation-adjusted dollars, a spreadsheet with the Consumer Price Index for years 1900-2017 is joined in Tableau with the spreadsheet containing ARL expenditures. A Calculated Field in Tableau then incorporates the Consumer Price Index along with nominal expenditures to adjust for inflation, based on the 2017 CPI (245.1). For example, **Expenditures for Monographs in current 2017 dollars** uses the calculation:

$$([\text{Expenditures for Monographs (nominal)}] * (245.1/[\text{CPI}]])$$

and Tableau plugs the correct Consumer Price Index for the [CPI] value based on the year value in the original data for whatever year is being displayed in the graph. The Consumer Price Index in 1990 was 130.7. If a library spent \$2,825,704 in 1990 on serials, that figure is displayed on the line graph based on the calculation:

$$2825704 * (245.1/130.7)$$

to convert the 1990 expenditures to 2017 inflation-adjusted dollars.

The Serials Expenditures measure in ARL data collection migrated to the new measure "Ongoing Resource Expenditures, beginning with the 2012 data; Monograph Expenditures was similarly changed to 'One-Time Resource Expenditures' in 2012. These new measures were substituted for the original measures in these graphs for the 2012-2017 data. This substitution is consistent with ARL-authored reports such as:

<http://www.arl.org/storage/documents/expenditure-trends.pdf>

Canadian ARL libraries (Alberta, British Columbia, Calgary, Guelph, Laval, McGill, McMaster, Manitoba, Montreal, Ottawa, Queen's, Saskatchewan, Toronto, Waterloo, Western, and York) are excluded in the *Median library expenditures among ARL members 1963-2017* and *Percentage change in Expenditures, 1987-2017* by default. Although ARL reports expenditures at Canadian ARL libraries in U.S. dollars at the contemporaneous exchange rate in its yearly statistics, the Consumer Price Index is a benchmark of inflation in the U.S. economy and may not be directly applicable to Canadian institutions. Users may add these institutions to the median calculations by selecting *All* from the Institution Name filter menu.

Your feedback and suggestions are welcomed!

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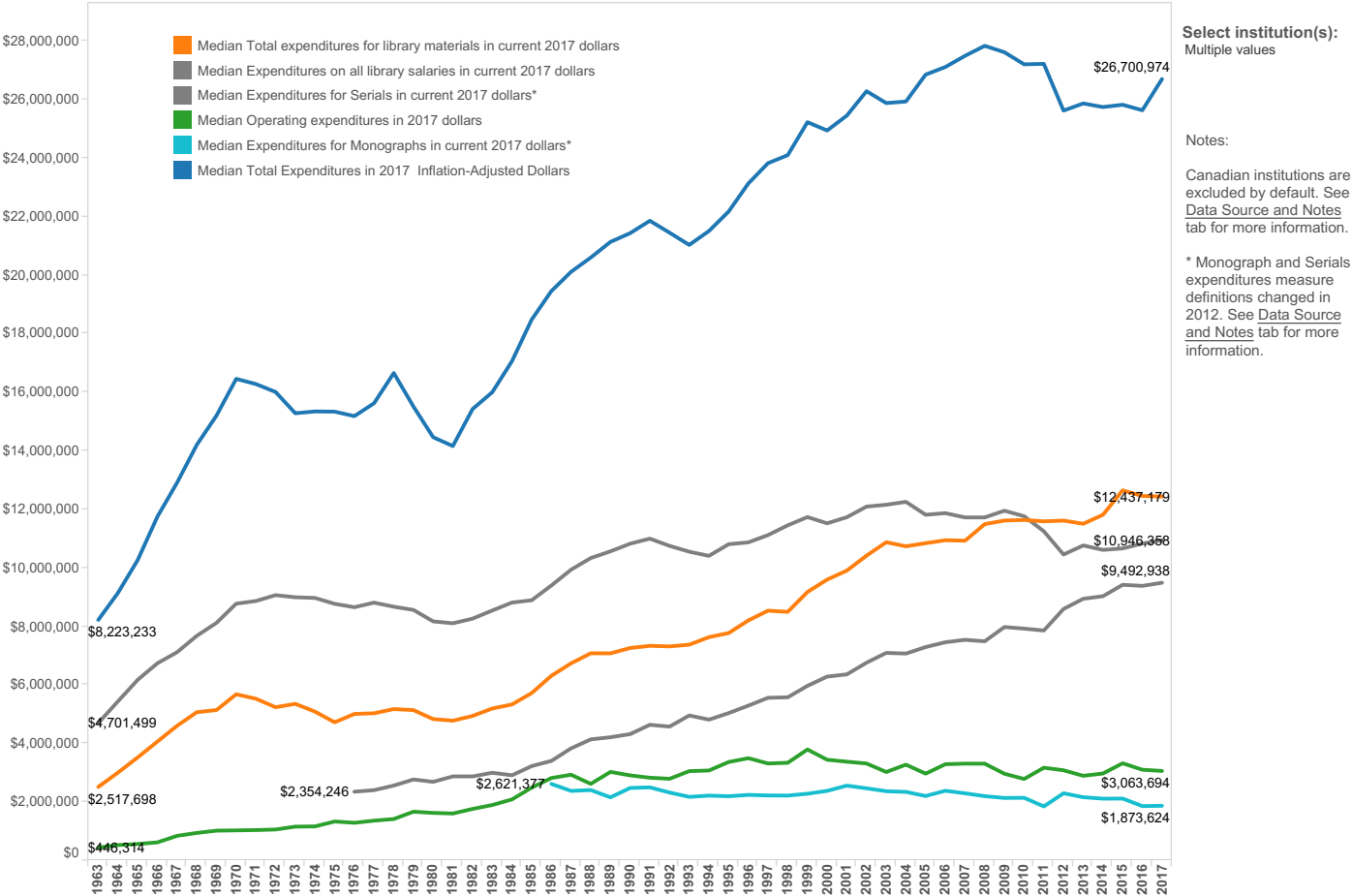
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Inflation-adjusted expenditures among U.S. ARL libraries in constant 2017 dollars, 1963-present

Median expenditures for serials, books, salaries, and operating expenses among ARL member libraries.



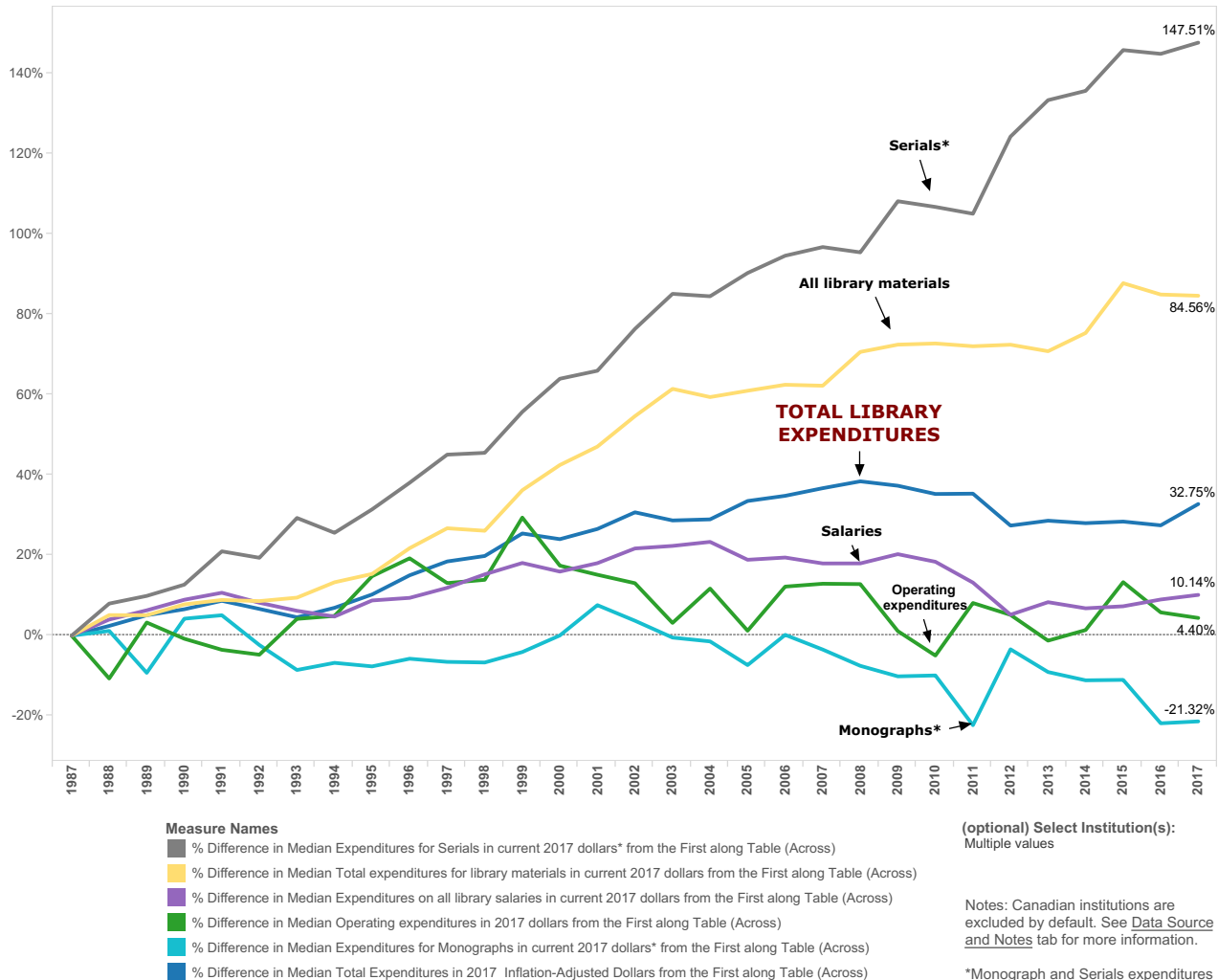
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Change in median expenditures in constant 2017 dollars among U.S. ARL institutions, 1987-2017



Notes: Canadian institutions are excluded by default. See [Data Source and Notes](#) tab for more information.

*Monograph and Serials expenditures measure definitions changed in 2012. See [Data Source and Notes](#) tab for more information

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Expenditures in inflation-adjusted 2017 dollars at ALABAMA libraries, 1963-present

