Bibliometrics Defined:

- The branch of library science concerned with the application of mathematical and statistical analysis to bibliography; the statistical analysis of books, articles, or other publications. (Oxford English Dictionary Online)

- In other words...data about publications, or citation frequency.

- Scientometrics is the branch of information science concerned with the application of bibliometrics to the study of the spread of scientific ideas; the bibliometric analysis of science. (Oxford English Dictionary Online)

80% of citations come from about 20% of the journals cited, identifying a core list for a local journal collection. -- (Hye-Kyung Chung, 2007)

How do we find that 20%? By citation searching and using bibliometric measures.

The University Library System has many databases that are helpful to you for Citation Searching:

- Web of Science (Cited by) (Cited Reference Search)
- Scopus (Citation Tracker) (Cited by)
- PsycINFO (Find Citation)
- Academic Search Premier (Cited References)(Find Similar Results)(Citation Matcher)
- JSTOR (Citation Locator)(Items Citing this Item)
- Google Scholar (Cited by)

Citation Tools and Measures:

- Citation Map (Web of Science)
- Citation Reports (Web of Science)
- Citation Tracker (Scopus)
- h-index (researchers impact) (Web of Science and Scopus)
- h-graph (depicts impact of a set of articles) (Scopus)
Databases that measure journal impact:

- Journal Citation Reports (Thomson Reuters; a standalone database that is also part of ISI Web of Knowledge)
- Scopus (Elsevier)

Journal Impact Tools and Measures

- Article Influence (uses Thomson Reuters citation data; In Journal Citation Reports or at http://www.eigenfactor.org)
- Eigenfactor (uses Thomson Reuters citation data; In Journal Citation Reports or at http://www.eigenfactor.org)
- Impact Factor (Thomson Reuters; in Journal Citation Reports)
- Journal Analyzer (uses Elsevier citation data; in Scopus)
- SNIP (uses Elsevier citation data; In Scopus or at http://www.scimagojr.com/index.php)
- SJR (uses Elsevier citation data; In Scopus or at http://www.journalindicators.com/)

Bibliography


Potentially, any database with citations could create bibliometric measures. Each vendor that offers bibliometric measures primarily uses its own unique data, journals, authority files, indexes, and subject categories.

There is currently no overarching tool across vendors.