WDML Workshop

Panel on Funding Agencies & Societies

2 June 2012

Donald E. McClure



American Mathematical Society - Snapshot

- 30,500 Individual Members (18,493 in the USA)
- 570 Institutional Members
- 70% of Operating Revenue is from Publications
 - Mathematical Reviews
 - Journals
 - Books, about 100 per year including research monographs, advanced textbooks, refereed conference proceedings

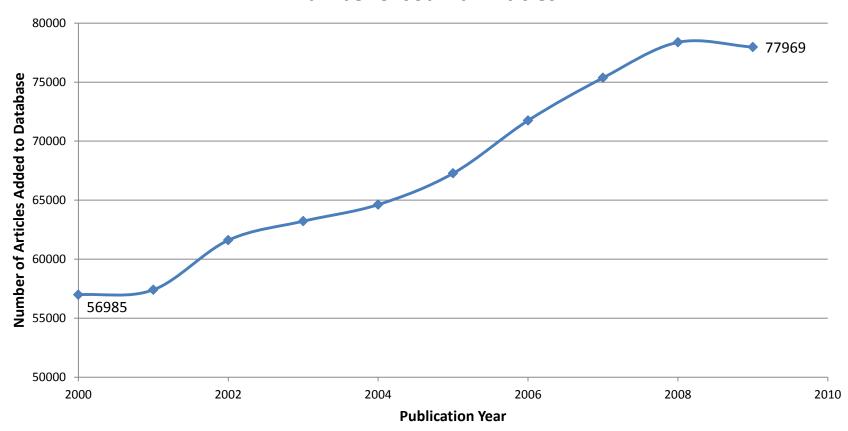


Journals

- Primary Research Journals
 - Journal of the AMS (1200 pages/volume)
 - Proceedings of the AMS (4200 pages)
 - Transactions of the AMS (6600 pages)
 - Mathematics of Computation (2400 pages)
- Two (free) e-Journals (e-RT and e-CGD)
- Two free Member Journals (Notices & Bulletin)
- Four Translation Journals (including Sugaku Expositions)
- Sale of Service (Production or Distribution) for 11
 other Journals

Opportunity?

Number of Journal Articles





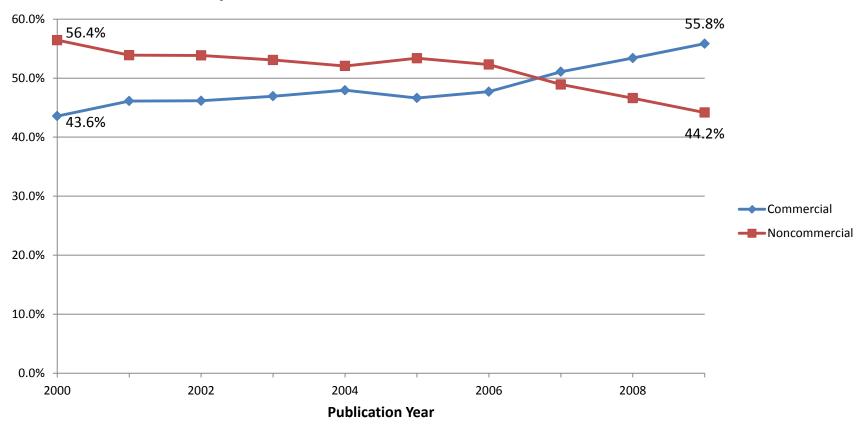
NB: Items are still being added for publication year 2009 and the current count of 77969 is increasing

See the Endnotes for an explanation of what is counted as a "Journal Article."

Source: Mathematical Reviews Data Base 1/25/2011

Market Share

Proportion of Articles from Commercial Publishers





Public Access and "Open" Access

AMS Policy:

The American Mathematical Society strongly endorses the principle that a paper in the mathematical sciences should have an opportunity to be evaluated and properly published without regard to the financial circumstances of its authors.

Dilemma of a "Gold" Open Access Model



Federal Support Patterns

	JAMS	TAMS	PAMS	MathComp
NSF Support	47.1%	18.3%	14.2%	12.4%
Other US Support	5.9%	1.5%	1.8%	4.1%
No US Federal Support	50.0%	81.0%	84.8%	84.3%

Percentages of Articles With or Without Support by a U.S. Agency 2009 Publication Year



Source: AMS Publication Data Base 2/2/2011

Public Dissemination

Posting on arXiv.org:

The AMS supports the practice of permitting authors to post a prepublication manuscript of a journal article on the author's personal web page, on the author's institution's noncommercial repository and on arXiv.org.

"Green" Open Access:

All published articles are available free to everyone five years after date of publication.

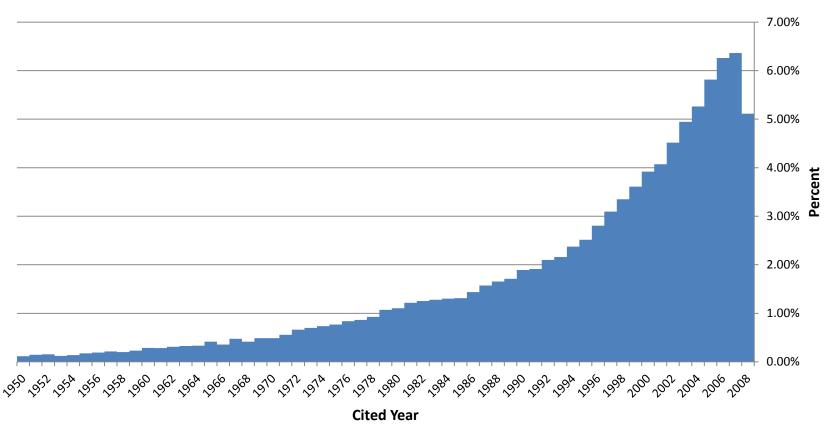
	JAMS	TAMS	PAMS	MathComp
Number of articles	34	268	493	121
Percent with preprint at arXiv.org	70.6%	56.6%*	27.0%*	23.5%*

^{*} Statistical estimate with standard error of less than 5%

Proportion of Published Articles Available with Unfettered Public Access 2009 Publication Year



Citations in Articles with Publication Year 2009





Quantile	Value for Citation Distribution
10%	1975
20%	1984
30%	1990
40%	1995
50%	1998
60%	2001
70%	2003
80%	2005
90%	2006

Distribution of Cited Year for Articles with Publication Year 2009 Median "Half life" is approximately 11 years



Mathematical Reviews Data Base Definitions

Journal article:

The articles that are counted in this report are so-called "regular items" in the nomenclature used by Mathematical Reviews. They are items that are deemed by an Associate Editor at MR to have mathematics content, are classified according to their MSC code, are processed for author and institution identification, and have complete bibliographic information reported.

