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A Madison-*Numeracy* Citation Index (2008-2015): Implementing a Vision for a Quantitatively Literate World

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A Madison-*Numeracy* Citation Index (2008-2015): Implementing a Vision for a Quantitatively Literate World

Abstract

This editorial recognizes the contributions made by Bernard Madison to the field of quantitative literacy with a bibliographic index of his papers, edited volumes, and works contained therein that were cited in the first eight volumes (2008-2015) of *Numeracy*. In total, 61 citing papers ("sources") cite 42 Madison works ("citations") a total of 218 times. The source and citation indexes provided in the appendix at the end of this editorial make it easy to see the direct contribution of Madison's work to the arguments and debates contained in the founding years of the journal. For those who are new to the field of quantitative reasoning, the citation index also provides an essential reading list. Most of the citations and sources are open-access and links within the indexes aid easy access to Madison's important contribution to *Numeracy* and the quantitative literacy movement.

Keywords

mathematicians, bibliography, quantitative literacy, bibliometrics, University of Arkansas

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Cover Page Footnote

Nathan D. Grawe is Professor and Chair of Economics at Carleton College. His involvement in quantitative reasoning has focused on assessment and faculty development. He is a co-editor of this journal.

Len Vacher is Professor of Geology in the School of Geosciences at the University of South Florida. He is a founding co-editor of this journal.

Readers may recall last volume's lead-off editorial in memory of Lynn Steen (Vacher 2015). That piece quantified the impact of Steen's visionary work on our field through works cited in papers published in *Numeracy's* first eight volumes (2008-2015). Even a cursory read of the Steen-*Numeracy* Citation Index reveals the crucial role played by Bernard (Bernie) Madison as co-author and co-editor. For instance, of the 67 Steen works cited in *Numeracy* papers, 40 percent were joint ventures with Madison. Even more to the point, 11 of the 14 most-cited Steen works in *Numeracy's* first eight years might more accurately be classified "Madison-Steen works." Given the potency of this research partnership and Madison's individual contribution through the influence of works on which Steen is not a co-author, we thought it appropriate to begin this 10th volume of *Numeracy* by honoring the contributions of Bernie Madison as seen through the lens of a companion Madison-*Numeracy* Citation index.

The citation index, which is in the Appendix below, contains two parts: (1) a citation list ("The Cited References") identifying all of the Madison works cited in *Numeracy* papers in the years 2008 through 2015, and (2) a source list section ("The Citing Papers") naming all of the *Numeracy* works that cite the Madison works in the citation list. The citing papers in Part 2 provide evidence of the wide influence that Madison's published works have had on the growth of our discipline; for example, of the 151 articles, perspective pieces, reviews, columns, and editorials published in the first eight volumes of this journal, 61 (more than 40 percent) explicitly connect their work to Madison's work through citation. (By personal experience, we attest that this is surely an underestimate of that influence as other *Numeracy* papers bear the marks of Bernie's work despite lacking a citation.) Taken together with the 10 *Numeracy* works written or co-authored by Madison, these data speak clearly to his indelible mark on the early years of the journal.

Citation patterns of the cited papers provide a window into just what it is in Madison's work that so many of us have found important. In total, the 42 Madison works listed in Part 1 are cited 218 times by the citing articles contained in Part 2. Of these citations, 171 (78%) point to just 14 of the Madison works. These are listed in Table 1 ordered by the number of times each was cited. Vacher (2015) argues that Steen's work made the case for quantitative literacy (QL). Evident in the non-shaded items in Table 1, Madison was a trusted collaborator in this intellectual effort. However, the shaded entries in Table 1 point to an important second thrust in Bernie's publications: Madison was a trailblazer in developing and teaching QL curricula. In these pieces authored alone or with co-authors other than Steen, Madison shared his experiences in the classroom attempting to implement the vision he developed along with Steen. This work represents a critical inflection point in any movement—the shift from hypothesizing to experimenting, from talking to doing. What is more, Madison

shared casebook materials and reflections in this journal and elsewhere so that others could cut their own paths with greater efficiency and effect.

Table 1.
The 14 Most-Cited Works from the Citation List of Part 1 of the Appendix

Rank Order	Citations	Title	Reference	Type
1	29	<i>Quantitative literacy: Why numeracy matters for schools and colleges</i>	Madison and Steen 2003	Edited volume
2	27	<i>Calculation vs. context: Quantitative literacy and its implications for teacher education</i>	Madison and Steen 2008b	Edited volume
3	22	<i>Case studies for quantitative reasoning: A casebook of media articles</i>	Madison and Dingman 2008 and Madison et al. 2009	Book
4	19	<i>Evolution of numeracy and the National Numeracy Network</i>	Madison and Steen 2008a	Article in <i>Numeracy</i>
5	11	<i>Quantitative Reasoning in the Contemporary World, 1: The course and its challenges</i>	Dingman and Madison 2010	Article in <i>Numeracy</i>
6	10	<i>Arguing with numbers: Teaching quantitative reasoning through argument and writing</i>	Lutsky 2008	Article in Madison and Steen 2008b
7	9	<i>Quantitative Reasoning in the Contemporary World, 2 Focus questions for the numeracy community</i>	Madison and Dingman 2010	Article in <i>Numeracy</i>
8	8	<i>The third R in literacy</i>	Richardson and McCallum 2003	Article in Madison and Steen 2003
8	7	<i>Reflections on quantitative reasoning: An assessment perspective</i>	Shavelson 2008	Article in Madison and Steen 2008b
9	7	<i>Preparing students for the business of the real (and highly quantitative) world</i>	Taylor 2008	Article in Madison and Steen 2008b
11	6	<i>Quantitative Reasoning in the Contemporary World, 3: Assessing student learning</i>	Boersma et al. 2011	Article in <i>Numeracy</i>
11	6	<i>Quantitative literacy and school mathematics: Percentages and fractions</i>	Schild 2008	Article in Madison and Steen 2008b
13	5	<i>The role of mathematics courses in the development of quantitative literacy</i>	Hughes-Hallett 2003	Article in Madison and Steen 2003
13	5	<i>Quantitative literacy: Everybody's orphan</i>	Madison 2001	Article in <i>MAA Focus</i>

In many aspects of his work, Madison has been a vital and dependable bridge. First, when the National Numeracy Network emerged from the just-completed National Council on Education and the Disciplines, it was Bernie who served as its first president and led the organization in its transformation into a national membership association. Second, even as he took the lead in developing alternatives to the traditional, calculus-oriented mathematics curriculum he simultaneously worked to improve that traditional curriculum through service on the AP Calculus Committee (and as Chief Reader from 1995 to 1999). And finally (from Table 1), Bernie “went first” putting into practice the visionary ideals of quantitative literacy articulated by Steen and other educational theorists (including himself). The important characteristic of bridges is that they stand with firm footing on each of the two sides of the gulf. Finding ways to bring two

different lands together can be complex work, often accomplished at a personal cost. Those who have worked with him can attest that Bernie took on these challenges with good will, good humor, and good sense.

For those who are new to the quantitative literacy movement and are looking to get up to speed, you could do a lot worse than visit the 23 most-cited works in the Steen-*Numeracy* and Madison-*Numeracy* citations lists (Table 1 here and in Vacher 2015). But if you want to fully understand those pieces and their intellectual progeny, be prepared to read a while. Between them, these works have been cited more than 269 times in *Numeracy* alone. Happy reading!

Reference

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Appendix

Madison-*Numeracy* Citation Index (2008-2015)

Compiled by Len Vacher (Jan 2016)

Part 1: Citation List (The Cited References)

Bass, Hyman. 2003. "What Have We Learned ... and What Have We Yet to Learn?" In Madison and Steen 2003: 247–249.

Madison and Steen 2009 <http://dx.doi.org/10.5038/1936-4660.2.1.2>

Best, Joel. 2008. "Beyond Calculation: Quantitative Literacy and Critical Thinking About Public Issues." In Madison and Steen 2008: 125–135.

Vacher and Lardner 2010 <http://dx.doi.org/10.5038/1936-4660.3.2.6>

Madison 2012 <http://dx.doi.org/10.5038/1936-4660.5.1.6>

Boersma, Stuart, Caren Diefenderfer, Shannon W. Dingman, and Bernard L.

Madison. 2011. "Quantitative Reasoning in the Contemporary World, 3:

Assessing Student Learning." *Numeracy* 4 (2), Article 8.

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Grawe 2013 <http://dx.doi.org/10.5038/1936-4660.6.2.11>

Vacher 2014 <http://dx.doi.org/10.5038/1936-4660.7.2.1>

Madison 2014 <http://dx.doi.org/10.5038/1936-4660.7.2.3>

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Frith 2012 (<http://dx.doi.org/10.5038/1936-4660.5.1.3>)
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 Boersma and Klyve 2013b (<http://dx.doi.org/10.5038/1936-4660.6.1.6>)
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 Madison 2014 (<http://dx.doi.org/10.5038/1936-4660.7.2.3>)
 Mayes et al., 2014 (<http://dx.doi.org/10.5038/1936-4660.7.2.5>)
 Russo 2015 (<http://dx.doi.org/10.5038/1936-4660.8.1.8>)
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Hillyard 2012	http://dx.doi.org/10.5038/1936-4660.5.2.2
Boersma and Klyve 2013b	http://dx.doi.org/10.5038/1936-4660.6.1.6
Harrison 2014	http://dx.doi.org/10.5038/1936-4660.7.2.2
Madison 2014	http://dx.doi.org/10.5038/1936-4660.7.2.3
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Dumford and Rocconi 2015	http://dx.doi.org/10.5038/1936-4660.8.1.5
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Dingman and Madison 2010	http://dx.doi.org/10.5038/1936-4660.3.2.4
Vacher and Lardner 2010	http://dx.doi.org/10.5038/1936-4660.3.2.6
Gaze 2010	http://dx.doi.org/10.5038/1936-4660.3.2.8
Steen and Madison 2011	http://dx.doi.org/10.5038/1936-4660.4.1.1
Watson 2011	http://dx.doi.org/10.5038/1936-4660.4.1.2
Boersma et al. 2011	http://dx.doi.org/10.5038/1936-4660.4.2.8
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Maclellan 2012	http://dx.doi.org/10.5038/1936-4660.5.2.3
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